A PROGRAM ABSTRACT FOR TRANSLATING INKPRINT INTO BRAILLE BY COMPUTER.

Ву

John R. Siems

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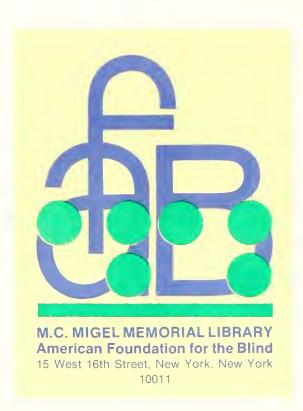
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LDRS PRICE MF-:0.50 NC-\$5.30

DESCRIPTORS

\*BRAILLE, COMPUTER PROGRAMS, \*EXCEPTIONAL CHILD

SERVICES, TECHNOLOGY, \*VISUALLY HANDICAPPED

## AESIRACI

A PROGRAM (ABSTRACT WRICH CORRESPONDS TO THE COMPUTER PACSEAU FOR FRATILE TRANSLATION OF THE AMERICAN PRINTING HOUSE FOR THE LLING PRISENTS AN APPROACH TO COMPUTER PROCESSING OF INKPRINT INTO EFAILLE INCLUDING INFUT, OUIFUT, STOFAGE AREAS, AND PROCESSING STEPS. THE FROGRAM RUNS ON A 709 DATA PROCESSING SYSTEM, FEQUIFES APPECALMATELY 9,400 36-BIT WORDS OF STOFAGE, AND PROCEEDS AT THE PATE OF ABOUT 12 BRAILLE PAGES PER MINUTE. TAPLES AND AN INDEX ARE INCLUDED. (AUIHOP/JM)

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FOR

TRANSLATING INMERINT THTO BRAILLE BY COMFUTER

AMERICAN PRINTING HOUSE FOR THE BLIND LOUISVILLE, KENTUCKY
1969

2006 600



## A PREGRAP ABSTRACT

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## TRANSLATING INKPRINT INTO BRAILLE BY COMPUTER

DATA PROCESSING DEPARTMENT ROBERT L. HAYNES, MANAGER

U.S DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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WRITTEN BY JCHN R. SIEMS

APERICAN PRINTING HOUSE FOR THE BLIND LOUISVILLE, KENTUCKY

1969

THIS PROJECT WAS DONE UNDER OFFICE OF EDUCATION GRANT 2-6061190-1578



THE PURPOSE OF THIS PROGRAM ABSTRACT IS TO PRESENT ONE APPROACH TO COMPUTER PROCESSING OF INKPRINT INTO BRAILLE. IN ESSENCE, THE ABSTRACT CORRESPONDS CLOSELY TO THE COMPUTER PROGRAM FOR BRAILLE TRANSLATION AT THE AMERICAN PRINTING HOUSE FOR THE BLIND. THE PROGRAM RUNS ON A 709 DATA PROCESSING SYSTEM WHICH IS MADE AVAILABLE WITHOUT CHARGE BY INTERNATIONAL BUSINESS MACHINES AND WHICH IS A PART OF THE BRAILLE PUBLISHING PROCESS AT APH.

ORIGINALLY, THE USE OF THE COMPUTER IN REGULAR BRAILLE PRODUCTION WAS MADE POSSIBLE BY MEANS OF A TRANSLATION PROGRAM WRITTEN FOR THE 704 BY IBM IN COOPERATION WITH APH. THIS PROGRAM IS DESCRIBED IN THE IBM DATA PROCESSING DIVISION PUBLICATION MEA-IC ENTITLED, BRAILLE TRANSLATION SYSTEM FOR THE 704. THE 709 PROGRAM NOW IN USE FOLIOWS SOME OF THE PRINCIPLES OF THE ORIGINAL PROGRAM, ESPECIALLY IN REGARD TO INPUT DATA FORMAT, TABLE ORDER, AND OUTPUT ARRANGEMENT. HOWEVER, IN REGARD TO THE ACTUAL TRANSLATION OF THE TEXT AND EXECUTION OF PAGE FORMAT, THE BASIC CONCEPTS OF THE PRESENT 709 PROGRAM ARE DIFFERENT FROM THOSE OF THE 704 PROGRAM.

ON THE 709: THE BRAILLE TRANSLATION OPERATION: AS IT IS DUTLINED HERE, REQUIRES APPROXIMATELY 9:400 36-BIT WORDS OF STORAGE AND PROCEEDS AT THE RATE OF ABOUT 12 BRAILLE PAGES PER MINUTE.

ALTHOUGH AN EFFORT HAS BEEN MADE TO ACHIEVE ACCURACY IN THIS PRESENTATION, LIABILITY FOR INACCURACIES IS NOT ASSUMED.



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- 2 -

## INPUT

THE INKPRINT TEXT TO BE TRANSLATED IS CONTAINED IN A FILE HAVING A RECORD LENGTH OF 72 CHARACTERS. IF LESS THAN THE 72 CHARACTERS OF A RECORD ARE USED FOR TEXT, A MINUS SIGN IS PLACED AFTER THE LAST TEXT CHARACTER IN THE RECORD.

INPUT IS PREPARED USING THE CHARACTER SET OF THE 1BM 026 KEYPUNCH. SOME INKPRINT CHARACTERS REQUIRE MORE THAN ONE KEYPUNCH CHARACTER. THE FOLLOWING LIST GIVES THE SYMBOLS WHICH ARE USED.

```
ACCENT
$ A
           AMPERSAND
3
           APCSTROPHE
5 9
₽ 零
           ASTERISK
#
           CAPITAL
           CCLCN
â ĉ.
           DASH
SUEC.
           DECIPAL PCINT
SDOL
           DOLLAR SIGN
           DCLBLE CAPITAL
# #
           DCUBLE DASH
6666
           DCUBLE ITALICS
$$ I
           ELLIPSIS
           EXCLAPATION POINT
$ X
9
           HYPHEN
           HYPHEN
                    IF WORD MAY NOT BE DIVIDED AT
SH
                    END OF LINE
SIV
           INKPRINT NUMBER SIGN
$ I
           ITALICS
$%
           LEFT BRACKET
42
           LEFT DEUBLE CUCTE
           LEFT SINGLE QUOTE
$3
           LETTER SIGN
SLR.
$PC
           PER CENT
           CLESTIEN PARK
$Q
$11
           RIGHT BRACKET
           RIGHT DOUBLE QUOTE
#0
           RIGHT SINGLE QUOTE
\Box 3
# 9
           SEMICCLON
$ TC
           TERMINATE CAPITALS
           TERMINATE ITALICS
STI
$ V
           VERSE NUMBER
```

			N.	
		, ,		

5.1	MACRON
32	DIATRESIS
<b>J</b> 3	SEMI-DIAERESIS
54	TILOE
\$ 5	CIRCUMFLEX
\$ 6	SUPERSCRIPT
57	UNDERLINE OR MIDDLE BAR
\$ 8	LIGATURED LETTERS
\$9	SCHWA
5.11	PRIMARY STRESS
\$12	SECONDARY STRESS
\$13	BREVE
\$21	MIDDLE HYPHEU
\$22	COMPOUND HYPHEN
\$31	DOUBLE DAGGER
\$32	DAGGER
\$33	DITTO MARKS
	,

ALONG WITH THE TEXT, INPUT DATA CONTAINS CONTROL CODES WHICH MAY INDICATE THE INKPRINT FORMAT OR THE DESIRED BRAILLE FORMAT. THE FORMAT CODES, GIVEN NEXT, ARE INSERTED AS NEEDED.

SLIT FOLLOWED BY A SPACE USE LITERARY FORMAT.

STEX FOLLOWED BY A SPACE USE TEXTBUOK FORMAT.

\$TEXIL FOLLOWED BY A SPACE
USE TEXTBOOK INTERLINE FORMAT.

\$MAGOD FOLLOWED BY A SPACE
USE MAGAZINE FORMAT NUMBERING ODD PAGES.

\*MAGEV FOLLOWED BY A SPACE
USE MAGAZINE FORMAT NUMBERING EVEN PAGES.

\$BLBRPS FOLLOWED BY A SPACE LEAVE BLANK AREA FOR BRAILLE PAGE NUMBER.

SOURCE FOLLOWED BY A NUMBER AND A SPACE SOURCE NUMBER OF TEXT.

STITLE FOLLOWED BY A NUMBER AND A SPACE TITLE NUMBER IDENTIFYING TEXT.

\*PGLNGTH FOLLOWED BY A NUMBER AND A SPACE NUMBER OF LINES TO BE PUT ON A BRAILLE PAGE.

\$RESLINE FOLLOWED BY A NUMBER AND A SPACE NUMBER OF CELLS IN A FULL BRAILLE LINE.



SHLINE FOLLOWED BY A NUMBER AND A SPACE NUMBER OF CELLS FOR A CENTERED LINE.

SCDINGR FOLLOWED BY A NUMBER AND A SPACE AMOUNT OF INCREMENT FOR PRAILLE CARD NUMBERS.

S VOL FOLLOWED BY A NUMBER AND A SPACE VOLUME NUMBER.

\$BRPG FOLLOWED BY A NUMBER AND A SPACE
BEGIN BRAILLE PAGE HAVING THE NUMBER SPECIFIED.

SBRIN FOLLOWED BY A NUMBER AND A SPACE NUMBER OF NEXT BRAILLE LINE.

SBRCD FOLLOWED BY A NUMBER AND A SPACE NUMBER OF NEXT BRAILLE CARD.

\$RGHO FOLLOWED BY A SPACE

BEGINNING OF TITLE FOR RUNNING HEAD.

SERH FOLLOWED BY A SPACE END OF RUNNING HEAD TITLE.

SCHAP FOLLOWED BY A NUMBER AND A SPACE
BEGIN CHAPTER TITLE. NUMBER REFERS TO NUMBER OF
LINES IN THE TITLE.

SCHAP FOLLOWED BY A SPACE
BEGIN CHAPTER TITLE CONSISTING OF ONE LINE:

\$ECH FOLLOWED BY A SPACE END CHAPTER TITLE.

SHEAD FOLLOWED BY A NUMBER AND A SPACE
BEGIN HEADING. NUMBER REFERS TO THE NUMBER OF
LINES IN THE HEADING.

SHEAD FOLLOWED BY A SPACE BEGIN ONE LINE HEADING.

\$HDEND FOLLOWED BY A SPACE END HEADING.

SPAR FCLLOWED BY A SPACE
BEGINNING OF PARAGRAPH.

\$BREAK FOLLOWED BY A SPACE
BLANK LINE INDICATING PAUSE OR BREAK IN THOUGHT.

\$SKIP FOLLOWED BY A SPACE
BLANK LINE OTHER THAN PAUSE OR BREAK IN THOUGHT.



\*BPEAK\* FULLOWED BY, A SPACE LINE OF ONE OR MORE ASTERISKS.

\$1PD FOLLOWED PY A SPACE BESIN POETRY FURMAT.

\$TPO FOLLOWED BY A SPACE END POETRY FORMAT.

SEL FOLLOWED BY A SPACE END LINE.

FER FOLLOWED BY A SPACE END BRAILLE PAGE.

\$EPLATE FOLLOWED BY A SPACE

END BRAILLE PAGE AND GO TO NEXT ODD-NJMBERED PAGE.

SCTR FOLLOWED BY A SPACE BEGIN CENTERING.

STOTE FOLLOWED BY A SPACE END CENTERING.

SIND FOLLOWED BY A NUMBER AND A SPACE
INDENTITIES LINE. NUMBER INDICATES THE NUMBER OF
SPACES TO BE LEFT BLANK BEFORE BEGINNING TEXT.

\$IND FOLLOWED BY A SPACE

BEGIN THIS LINE AT THE LEFT MARGIN.

\$DX FOLLOWED BY A NUMBER AND A SPACE

BEGIN INDEX FORMAT. NUMBER INDICATES THE NUMBER

OF SPACES WHICH ARE TO PRECEDE RUN-OVER LINES.

\$DXEND FOLLOWED BY A SPACE END INDEX FORMAT.

\$LTROL FOLLOWED BY A NUMBER AND A SPACE
END OF TEXT PART OF LETTER OF CORRESPONDENCE.
NUMBER REFERS TO THE NUMBER OF LINES IN THE
CLOSING OF THE LETTER.

\$BLOCK FOLLOWED BY A NUMBER AND A SPACE
LEAVE A BLOCK OF BLANK LINES. NUMBER REFERS TO
THE NUMBER OF LINES DESIRED.

SCOL FOLLOWED BY A SPACE
BEGIN ARRANGING MATERIAL IN COLUMNS.

\$COL FOLLOWED BY A NUMBER AND A SPACE
THE FOLLOWING ITEM IS LEFT ALIGNED IN A COLUMN.
THE NUMBER REFERS TO THE NUMBER OF THE COLUMN IN WHICH THE ITEM OCCURS.

SCOLR FOLLOWED BY A NUMBER AND A SPACE

THE FOLLOWING ITEM IS RIGHT ALIGNED IN A COLUMN.

THE NUMBER REFERS TO THE NUMBER OF THE COLUMN IN WHICH THE ITEM COCURS.

SECOL FOLLOWED BY A SPACE END COLLMA FURBAT.

\$DNSP FOLLOWED BY A NUMBER AND A SPACE

DO NOT SEPARATE THE FOLLOWING LINES AT THE END DF
A PAGE. THE NUMBER GIVES THE NUMBER OF LINES
WHICH ARE TO BE KEPT TOGETHER.

SRMRG FOLLOWED BY A SPACE

ALIGN THE NEXT WORD OR GROUP OF WORDS AT THE RIGHT

MARGIN. THE WORD OR GROUP OF WORDS MUST BE
FOLLOWED BY SEL.

\$DOTS FOLLOWED BY A SPACE
INSERT LEADER DOTS TO WORD OR NUMBER AT RIGHT
MARGIN. THIS SYMBOL IS USED ONLY PRECEDING THE
\$RMRG SYMBOL.

\$ALTRMRG FOLLOWED BY A NUMBER AND A SPACE
USE A RIGHT MARGIN WHICH IS SET IN FROM THE NORMAL
RIGHT MARGIN. THE NUMBER REFERS TO THE NUMBER OF
THE LAST CELL TO BE USED IN THE ALTERNATE LENGTH
LINE.

SALTRMEND FOLLOWED BY A SPACE END USE OF ALTERNATE RIGHT MARGIN.

\$IG1 FOLLOWED BY A SPACE
BEGIN GRADE 1 TRANSLATION.

\$TG1 FOLLOWED BY A SPACE END GRADE 1 TRANSLATION.

\$CDDTS FOLLOWED BY A NUMBER AND A SPACE
INSERT CENTERED LINE OF DOTS. NUMBER REFERS TO
NUMBER OF DOTS TO BE PLACED IN THE LINE.

\$CENSO FOLLOWED BY A SPACE INSERT CENTERED COLON LINE.

SCLNSF FOLLOWED BY A SPACE
INSERT FULL LINE OF COLONS.

SCELL FOLLOWED BY A NUMBER AND A SPACE
BEGIN NEXT WORD IN THE CELL NUMBER SPECIFIED.



\$PG FOLLOWED BY A SPACE, A NUMBER, A PERIOD, AND A SPACE BESINNING OF NEXT INKPRINT PAGE. NUMBER REFER: 13 INKPRINT PAGE NUMBER WHICH MAY BE EITHER ARABIC 23 ROMAN.

SEND FOLLOWED BY A SPACE

END OF RUN. THIS SYMBOL SHOULD BE FOLLOWED BY A BLANK RECORD.

THE FIRST RECORDS OF INPUT DATA FOR A PARTICULAR JOB CONTAIN CONTROL CODES SPECIFYING FIRST THE TYPE OF BOOK, SUCH AS LITERARY OR TEXTBOOK, AND THEN TITLE NUMBER, VOLUME NUMBER, LENGTH DEBRAILLE PAGE, BRAILLE LINE LENGTH, BRAILLE PAGE NUMBER, BRAILLE LINE LENGTH, BRAILLE PAGE NUMBER, BRAILLE CARD NUMBER, AND CARD NUMBER INCREMENT. IN A RUNNING HEAD IS TO BE USED IT IS GIVEN ENCLOSED BY THE SYMBOLO FOR BEGINNING AND END OF RUNNING HEAD. PART OR ALL DE THE SPECIFICATIONS MAY BE CHANGED AT A LATER POINT IN THE INPUT IF DESIRED.

THE SEND CODE FOR ENDING TRANSLATION IS PLACED AT THE CONCLUSION OF THE TEXT MATERIAL. A BLANK RECORD FOLLOWS THE RECORD WHICH CONTAINS THIS CODE.



#### CUTPUT

THE RESULT OF TRANSLATION IS A SUCCESSION OF DATA BLOCKS CONTAINING INFORMATION FOR CUTPUT RECORDS. DEPENDING UPON THE TYPE OF OUTPUT DESIRED, DIFFERENT SECTIONS OF THE DATA IN A BLOCK MAY BE TRANSFERRED TO A RECORD OF THE CUTPUT FILE. A BLOCK ALLOWS FOR 72 POSITIONS OF DATA. EACH POSITION CONSISTS OF 16

POSITIONS 1 TO 7 CF THE BLCCK AND THE LOW ORDER 4 BTTS OF POSITIONS 8 TO 72 CCNTAIN INFORMATION FOR BRAILLE-CARD IDENTIFICATION. BEGINNING WITH POSITION 8, THE HIGH ORDER 12 BITS OF EACH POSITION REPRESENT EITHER A BRAILLE TEXT CODE OR A CONTROL CODE. THE 8-BIT BRAILLE COMMUNICATIONS CODE IS IN BITS 5 TO 12. BITS 1 TO 4 SERVE TO DISTINGUISH AMONG BRAILLE CHARACTERS WHICH HAVE THE SAME DOTS BUT DIFFERENT MEANINGS. BRAILLE DATA

IN PUNCHING BRAILLE STERECGRAPH CARDS, CARD COLUMNS 1 TO 72 ARE USED. THE 72 CCLUMNS CCRRESPOND TO THE 72 POSITIONS OF THE DATA BLOCK. INFORMATION FROM THE LOW CROER 12 BITS OF A POSITION IS PUNCHED INTO A CARD COLUMN.

THE DIAGRAM ON THE NEXT PAGE SHOWS THE SECTIONS OF THE DATA OUTPUT AREA. SECTIONS C AND D PROVIDE DATA FOR OUTPUT PRODUCED FOR THE PURPOSE OF CHECKIAG TRANSLATION ACCURACY. SECTIONS B, D. AND E ARE USED FOR CUTPUT IN THE FORM OF BRAILLE CARDS. IF ONLY THE BRAILLE COMMUNICATIONS CODE IS DESIRED, IT IS AVAILABLE IN SECTION D.



# DUTPUT DATA BLOCK

# BINARY DIGIT

	1	2	3	4	5	6	٠,7	8	9	10	11	12	13	14 15	16
DATA -ISC9 TION															
1 · · · · · · · · · · · · · · · · · · ·	•	A. NOT USE	D	e c		D	ATA I	FOR I	6 0	8. LE (	CARD	NJME	BERS	e • • •	
11 .		DΑ	TA		•		;	BRAI	LLE			6		DATA	6
12 .		FO	R		• .	CC	MMUN	ICAT	I ONS	COD	E	•		FOR	
13 · · · · · · · · · · · · · · · · · · ·		DEN FYI RAI SIG	NG LLE		FOR- MAT		6 DOT 6		, DOT ,	3 DOT 3	DOT 2	DOT		CARD CARD TYVBDI CATIO	0 0
71 .	•	• •	•	<b>0</b>	•	<b>c</b> 0	RRES	· ·	· ·	• •	• •	CARD	e e	* • •	•

12 11 0 1 2 3 4 5 6 7 8 9



## STORAGE AREAS

THE PRINCIPAL VARIABLE AND CONSTANT FIELDS EMPLOYED IN PROCESSING ARE LISTED BELOW.

IN THE TRANSLATION PROCEDURE A BRAILLE CHARACTER IS SPECIFIED BY 12 BINARY DIGITS. THE LCW CROER 8 BITS CONTAIN THE BRAILLE COMMUNICATIONS CODE. THE HIGH CROER 4 BITS AID IN FURTHER IDENTIFYING THE BRAILLE SIGN. THE 12 BITS ARE REPRESENTED BY A FIVE-DIGIT DECIMAL CODE AS FOLLOWS.

DECIMAL DIGITS	F	IRS	T	hO	THI	RD	·FO	JRT	H	F	IFT	H
BINARY DIGITS	1	2	3	<i>L</i> <sub>\$</sub>	5	6	7	8	9	10	11	12
BRAILLE COMMUNICATIONS CODE					8	7	6	5	L <sub>p</sub>	3	2	1
DOTS OF BRAILLE CELL							6	5	l	3	2	1

STORAGE AREAS FOR BRAILLE DATA, THEREFORE, CONTAIN 12 SIGNIFICANT BITS FOR EACH BRAILLE CHARACTER.

UNLESS OTHERWISE INDICATED, A DIGIT REFERS TO A DECIMAL DIGIT.

NAME

DESCRIPTION

INPUT RECORD

AN AREA FOR STORING AN INPUT RECORD OF 72 CHARACTERS

END OF RECORD CHARACTER

MINUS SIGN

LOCATION OF NEXT CHARACTER TO BE MOVED FROM INPUT

AN ACCRESS

RECORD

TEXT

AN AREA FOR STORING 200 CHARACTERS OF INPUT TEXT

LOCATION FOR STORING NEXT CHARACTER IN TEXT AN ADDRESS

NUMBER OF CHARACTERS ADDED TO TEXT	TWO DIGITS
LOCATION OF FIRST CHARACTER CF PRIMARY UNIT	AN ADDRESS
LOCATION OF LAST CHARACTER OF PRIMARY UNIT	AN ADDRESS
FIRST AND SECOND LOOK-UP CHARACTERS OF PRIMARY UNIT	TWO CHARACTERS
LOCATION OF PRIMARY UNIT IN BRAILLE TABLE	AN ADDRESS
LOCATION OF FIRST CHARACTER OF TEMPORARY UNIT	AN ADDRESS
LOCATION OF LAST CHARACTER OF TEMPORARY UNIT	AN ADDRESS
FIRST AND SECOND LOUK-UP CHARACTERS OF TEMPORARY UNIT	TWO CHARACTERS
LOCATION OF TEMPORARY UNIT IN BRAILLE TABLE	AN ADDRESS
LOCATION OF FIRST CHARACTER OF SECONDARY UNIT	AN ADDRESS
LOCATION OF LAST CHARACTER OF SECONDARY UNIT	AN ADDRESS
FIRST AND SECOND LOOK-UP CHARACTERS OF SECONDARY UNIT	TWO CHARACTERS
LOCATION OF SECONDARY UNIT IN BRAILLE TABLE	AN ADDRESS
BRAILLE TABLE LOCATION REFERENCE	AN ADDRESS
LOCATION OF CHARACTER PRECEDING PRIMARY UNIT	AN ADDRESS
LOCATION OF CHARACTER FOLLOWING PRIMARY UNIT	AN ADDRESS
LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED	AN ADDRESS

END MARK FOR INKPRINT PART OF BRAILLE TABLE ENTRY	A SPECIAL CHARACTER GREATER IN VALUE THAN ANY INPUT CHARACTER
TYPE OF NEXT TO THE LAST UNIT BEFORE PRIMARY UNIT	TWO DIGITS
TYPE OF LAST UNIT BEFORE PRIMARY UNIT	TWO DIGITS
TYPE OF SECONDARY UNIT	TWO DIGITS
LETTER TYPE	31
SPACE TYPE	06
HYPHEN TYPE	05
COMPOSITION SIGN TYPE	04
BEGINNING PUNCTUATION TYPE	32
ENDING PUNCTUATION TYPE	03
APDSTROPHE TYPE	80
DASH TYPE	.07
NUMBER TYPE	11
BY INTO TO TYPE	10
LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE	AN ACCRESS
DUMMY BRAILLE TABLE ENTRY	AN AREA OF THE SAME SIZE AS AN ENTRY IN THE BRAILLE TABLE
CONTRACTION IDENTIFICATION NUMBER	THREE CIGITS
LOCATION OF EXCEPTION TABLE ENTRY	AN ADDRESS
LOCATION OF PRECEDING CHARACTERS SUBSECTION	AN ADDRESS
LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	AN ACCRESS



IN VALUE THAN ANY INPUT CHARACTER LOCATION OF NEXT EXCEPTION AN ADDRESS TABLE CHARACTER SEVEN DIGITS FORMAT SYMBOL FACTOR CENTERING SHIFT FACTOR TWO DIGITS INDEX AMDUNT TWO DIGITS INDEX AMOUNT REFERENCE TWO DIGITS INDENT FACTOR TWO DIGITS RIGHT MARGIN SHIFT FACTOR TWO DIGITS RUNNING HEAD SHIFT FACTOR . TWO DIGITS LINES REQUIRED BEFORE END OF TWO DIGITS PAGE DEVEL STOUG ONE DIGIT EFFECTIVE COLUMN SIGNAL CODE AN AREA FOR STORING I BRAILLE CHARACTER NEXT COLUMN SIGNAL CODE AN AREA FOR STORING I BRAILLE CHARACTER COLUMN NUMBER TWO DIGITS TEMPORARY COLUMN WIDTH TWO DIGITS PREVIOUS LINE LENGTH TWO DIGITS COLUMN LINE AN AREA FOR STORING 50 BRAILLE CHARACTERS LOCATION OF NEXT BRAILLE AN ADDRESS CHARACTER IN COLUMN LINE COLUMN ADJUSTMENT FACTOR TWO DIGITS BRAILLE WORD AN AREA FOR STORING 50 BRAILLE CHARACTERS

END MARK IN EXCEPTION TABLE A SPECIAL CHARACTER GREATER

AN ADDRESS

LOCATION FOR STORING NEXT

BRAILLE WORD

BRAILLE CHARACTER IN



IN BRAILLE WORD AN AREA FOR STORING 50 BRAILLE BRAILLE LINE CHARACTERS LOCATION FOR STORING NEXT AN ADDRESS BRAILLE CHARACTER IN BRAILLE LINE NUMBER OF BRAILLE CHARACTERS TWC DIGITS IN BRAILLE LINE AN AREA FOR STORING 50 BRAILLE RUNNING HEAD CHARACTERS LOCATION FOR STORING NEXT AN ADDRESS BRAILLE CHARACTER IN RUNNING HEAD NUMBER OF BRAILLE CHARACTERS TWO DIGITS IN RUNNING HEAD AN AREA FOR STORING 50 BRAILLE STORED BRAILLE LINE CHARACTERS LOCATION OF NEXT BRAILLE AN ACCRESS CHARACTER IN STORED BRAILLE LINE BRAILLE PAGE NUMBER TRANSLATED AN AREA FOR STORING 7 BRAILLE CHARACTERS NUMBER OF BRAILLE CHARACTERS TWO DIGITS IN BRAILLE PAGE NUMBER TRANSLATED INKPRINT PAGE NUMBER AN AREA FOR STORING 32 BRAILLE TRANSLATED CHARACTERS LOCATION FOR STORING NEXT AN ADDRESS BRAILLE CHARACTER IN INKPRINT PAGE NUMBER TRANSLATED NUMBER OF BRAILLE CHARACTERS TWO DIGITS IN INKPRINT PAGE NUMBER TRANSLATED NUMBER OF BRAILLE CHARACTERS TWC DIGITS IN PAGE NUMBER

TWO DIGITS

NUMBER OF BRAILLE CHARACTERS

THREE DIGITS

. . .

SOURCE NUMBER



TITLE NUMBER FOUR DIGITS BRAILLE VOLUME NUMBER TWO DIGITS BRAILLE PAGE NUMBER FIVE DIGITS BRAILLE PAGE NUMBER REFERENCE FIVE DIGITS FOR NEW INKPRINT PAGE BRAILLE LINE NUMBER FIVE DIGITS BRAILLE SARD NUMBER SEVEN DIGITS INCREMENT FOR BRAILLE CARD FOUR DIGITS NUMBER MAXIMUM NUMBER OF BRAILLE -TWO DIGITS CHARACTERS IN FULL LINE EFFECTIVE MAXIMUM NUMBER OF TWO DIGITS BRAILLE CHARACTERS IN BRAILLE LINE MAXIMUM NUMBER OF BRAILLE TWO DIGITS CHARACTERS IN CENTERED LINE MAXIMUM NUMBER OF BRAILLE TWO DIGITS -CHARACTERS IN ALTERNATE LINE MAXIMUM NUMBER OF BRAILLE TWO DIGITS CHARACTERS IN NEXT LINE MAXIMUM NUMBER OF LINES FOR FIVE DIGITS BRAILLE PAGE EFFECTIVE MAXIMUM NUMBER OF FIVE DIGITS LINES FOR BRAILLE PAGE DECIMAL NUMBER FIVE DIGITS 4-BIT DIGIT LIST AN AREA OF 10 POSITIONS, EACH PUSITION HAVING 4 BINARY DIGITS LOCATION OF NEXT CODE TO BE AN ADDRESS ADDED TO OUTPUT OUTPUT DATA AN AREA OF 72 POSITIONS, EACH POSITION HAVING 16 BINARY

DIGITS

LOCATION OF NEXT POSITION IN DUIPUT DATA	AN ADDRESS
END OF PAGE CODE'S	THO BRAILLE CHARACTERS 00303 00000
DATA FOR INTERLINE	SEVEN BRAILLE CHARACTERS 02300 02300 02300 02300 02300 00201 00000
BRAILLE END CHARACTER	00000
CODE FOR NUMBER SIGN	04074
CODE FOR LETTER SIGN	14060
CODE FOR DOT 5	12120
CODE FOR DOTS 3 AND 6	06044
CODE FOR SPACE	02300
CODE FOR HYPHEN	34044
CODE FOR SPECIAL SPACE	06300
CODE FOR NUMBER HYPHEN	12044
BIG NUMBER HYPHEN	10044
CODE FOR NUMBER COMMA	12102
CODE FOR CAPITAL	02140
CODE FOR PERIOD	36162
CODE FOR COLON	10022
CODE FOR ASTERISK	05024
CODE FOR 1	04101
CODE FOR A	02101
CODE FOR UNSPACED AND	12157
CODE FOR B	02003
CODE FOR SPECIAL B	12003
CODE FOR BE	04006

12164

CODE FOR BY



CODE FOR SPECIAL C	12011			
CODE FOR COM	02044			
CODE FOR SPECIAL EN	12042			
CODE FOR ENGUSH	36042			
CODE FOR UNSPACED FOR	12077			
CODE FOR SPECIAL H	14123			
CODE FOR HIS	02145			
CODE FOR SPECIAL I	12012			
CODE FOR IN	02024			
CODE FOR IN OF INTO	00024			
CODE FOR O	02125			
CODE FOR UNSPACED UF	12167			
CODE FOR T	<b>0</b> 2036			
CODE FOR TO	12126			
CODE FOR TO OF INTO	14126			
CODE FOR SPECIAL W	12072			
CODE FOR WAS	04164			
CODE FOR WERE	04066			
CODE FOR UNSPACED WITH	12175			
CODE FOR Y	02175			
RIGHT MARGIN SIGNAL CODE	34300			
COLUMN LEFT ALIGN SIGNAL CODE	00880			
COLUMN RIGHT ALIGN SIGNAL CODE	10300			
END OF LINE CODE .	00201			
END OF CARD CODE	00204			
TEXTBOOK FORMAT INDICATOR	A BINARY DIGIT			
INTERLINE FORMAT INDICATOR	A BINARY DIGIT			



MAGAZINE FORMAL NUMBERED CDD INDICATOR:	٨	BINARY	01011
MAGAZINE FORMAT NUMBERED EVEN	Α	PINARY	DIGIT
LEAVE BLANK AREA FOR BRAILLE PAGE NUMBER INDICATOR	A	BINARY	DIGIT
INSERT RUNNING HEAD INDICATOR	A	BINARY	DIGIT
INSERT BRAILLE PAGE NUMBER INDICATOR	A	BINARY	DIGIT
INSERT INKPRINT PAGE NUMBER INDICATOR	А	BINARY	DIGIT
NEW LINE INDICATOR	A	BIMARY	DIGIT
BY INTO TO INDICATOR	A	BINARY	DIGIT
NUMBER HYPHEN INDICATOR	A	BINARY	DIGIT
CENTERING INDICATOR	A	BINARY	DIGIT
INDEX FORMAT INDICATOR	A	BINARY	DIGIT
ALIGN RIGHT MARGIN INDIGATOR	A	BINARY	DIGIT
INSERT LEADER DOTS INDICATOR	A	BINARY	DIGIT
ALTERNATE RIGHT MARGIN INDICATOR	A	PILARY	CIGIT
INSERT INKPRINT PAGE LINE INDICATOR	A	BINARY	DIGIT
COLUMN FIRST LINE INDICATOR	A	BINARY	DIGIT
COLUMN RIGHT ALIGN INDICATOR	A.	BINARY	DIGIT
LEVEL 2 CORRESPONDING QUOTES USED INDICATOR	A	BINARY	DISIT
LEVEL 2 INVERTED QUOTES USED INDICATOR	A	BINARY	DIGIT
GRADE 1 INDICATOR	Α	BINARY	DIGIT
ADD TO RUNNING HEAD INDICATOR	Α	BINARY	CIGIT
ADD TO INKPRINT PAGE NUMBER INDICATOR	٨	BINARY	DIGIT

## PROCESSING STEPS

IN THE STATEMENTS WHICH FOLLOW, NAMES OF ROJITYES AND NAMES OF THE PRINCIPAL STURAGE AREAS ARE ENCLOSED BY HYPHENS.

#### MAIN PROGRAM

STEP 1 EXECUTE -INITIALIZE-

STEP 2 EXECUTE -GET WEXT PRIMARY UNIT-

STEP 3 GO TO -PERFORM OPERATION-

STEP 4 EXECUTE -GET ALTERNATE UNIT-

STEP 5 30 TO -PERFORM OPERATION-

STEP 6 EXECUTE -ADD TO BRAILLE WORD-

STEP 7 GO TO STEP 2

#### INTITIALIZE

EXECUTE -INITIALIZE TEXT AREA-EXECUTE -CLEAR OUTPUT DATA-EXECUTE -SET BEGINNING STATUS-EXIT

### INITIALIZE TEXT AREA

SET -LOCATION FOR STORING NEXT CHARACTER IN TEXT- EQUAL TO LOCATION OF 3RD CHARACTER IN -TEXT-

SET -LOCATION OF LAST CHARACTER OF PRIMARY JAIT- EQUAL TO LOCATION OF 2ND CHARACTER IN -TEXT-

MOVE SPACES TO FIRST TWO CHARACTERS IN -TEXT-

FROM -TABLE OF ONE CHARACTER LOCATIONS IN BRAILLE FABLE-, SET THE LOCATION OF THE BRAILLE FABLE ENTRY FOR SPACE AND STORE THIS LOCATION IN -LOCATION OF PRIMARY JULI IN BRAILLE FABLE-

CLEAR -LOCATION OF FIRST CHARACTER OF SECONDARY UNIT-STORE -SPACE TYPE- IN -TYPE OF LAST UNIT BEFORE PRIMARY UNIT-

SET -LOCATION OF NEXT CHARACTER TO BE MOVED FROM INPUT RECORD- EQUAL TO LOCATION OF HYPOTHETICAL 73RD CHARACTER OF -INPUT RECORD-



#### SET BEGINAING STATUS

- STORE 1 IN -BRAILLE PAGE NUMBER-
- STORE & IN -BRAILLE LINE NUMBER-
- EXECUTE -TRANSLATE BRAILLE PAGE NUMBER-
- STORE -CODE FOR NUMBER SIGN-, -CODE FOR 1-, AND -BRAILLE END CHARACTER- IN FIRST THREE POSITIONS OF -INCPKINT PAGE NUMBER TRANSLATED-
- STORE 2 IN -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED+
- SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -BRAILLE LINE-
- SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE WORD- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -BRAILLE WORD-
- MOVE -BRAILLE END CHARACTER- TO FIRST BRAILLE CHARACTER OF -BRAILLE LINE- AND TO FIRST BRAILLE CHARACTER OF -BRAILLE WORD-
- STORE ZERO IN -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- AND IN -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-
- STORE 25 IN -MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-AND IN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-
- STORE 38 IN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- AND IN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-
- STORE 32 IN -MAXIMUM NUMBER OF ERAILLE CHARACTERS IN CENTERED LINE-
- EXECUTE -RESET GENERAL FORMAT INDICATORS-
- RESET -CENTERING INDICATOR-, -ALTERNATE RIGHT MARGIN INDICATOR-, -INSERT BRAILLE PAGE NUMBER INDICATOR-, AND -INSERT INKPRINT PAGE NUMBER INDICATOR-
- RESET -ALIGN RIGHT MARGIN INDICATOR-, -INSERT LEADER DOTS INDICATOR-, -INSERT INKPRINT PAGE LINE INDICATOR-, -BY INTO TO INDICATOR-, -INCEX FORMAT INDICATOR-, AND -NUMBER HYPHEN INDICATOR-
- RESET -ADD TO RUNNING HEAD INDICATOR-, -ADD TO INCPRINT PAGE NUMBER INDICATOR-, -GRADE 1 INDICATOR-, -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR-, AND -LEVEL 2 INVERTED QUOTES USED INDICATOR-
- SETT-INSERT RUNNING HEAD INDICATOR- AND -NEW LINE INDICATOR-
- MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-
- STORE -BRAILLE END CHARACTER- IN FIRST BRAILLE CHARACTER OF -RUNNING HEAD-
- MOVE ZERO TO -CLOTE LEVEL-
- STORE 1 IN -SCURCE NUMBER-, -BRAILLE VOLUME NUMBER-, AND -TITLE NUMBER-
- STORE 10 IN -BRAILLE CARD NUMBER- AND IN -INCREMENT FOR BRAILLE CARD NUMBER-

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GET VEXT PRIMARY UNIT

MOVE -TYPE OF EAST UNIT BEFORE PRIMARY UNIT- TO -TYPE OF NEXT TO THE EAST UNIT BEFORE PRIMARY UNIT-

THE TYPE OF LAST UNIT BEFORE PRIMARY UNIT - FROM RIGHT LNO TYPE IN BRAILLE FABLE ENTRY FOR PRIMARY UNIT

SET -LOCATION OF FIRST CHARACTER OF PRIMARY UNIT- EQUAL TO LOCATION OF CHARACTER FOLLOWING LAST CHARACTER OF PRIMARY UNIT

IF -LUCATION OF FIRST CHARACTER OF PRIMARY UNIT- IS THE SAME AS -LOCATION OF FIRST CHARACTER OF SECUNDARY UNIT-, 30 TO STEP B

EXECUTE -ADD TO TEXT-

MOVE -LOCATION OF FIRST CHARACTER OF PRIMARY UNIT- TO -LOCATION OF FIRST CHARACTER OF TEMPORARY UNIT- AND EXECUTE -GET TRANSLATION UNIT-

GET -FIRST AND SECOND LOOK-UP CHARACTERS OF PRIMARY UNIT-, -LCCATION OF PRIMARY UNIT IN BRAILLE TABLE-, AND -LOCATION OF LAST CHARACTER OF PRIMARY UNIT- FROM CORRESPONDING TEMPORARY UNIT DATA AND CO TO STEP D

STEP B GET -FIRST AND SECOND LOOK-UP CHARACTERS OF PRIMARY UNIT-AND -LOCATION OF PRIMARY UNIT IN BRAILLE TABLE- FROM CORRESPONDING SECONDARY UNIT DATA

-TXET OF GGA- BTUCSXB

DERIVE -LOCATION OF LAST CHARACTER OF PRIMARY UNIT- FROM -LOCATION OF FIRST CHARACTER OF PRIMARY UNIT- PLUS -LOCATION OF LAST CHARACTER OF SECONDARY UNIT- MINUS -LOCATION OF FIRST CHARACTER OF SECONDARY UNIT-

STEP D CLEAR -LOCATION OF FIRST CHARACTER OF SECONDARY UNIT-

GET TRANSLATION UNIT

MOVE FIRST CHARACTER OF TEMPORARY UNIT AND THE TEXT CHARACTER WHICH FOLLOWS IT TO -FIRST AND SECUND LOOK-UP CHARACTERS OF TEMPORARY UNIT-

EXECUTE - TWO LETTER SEARCH-

IF -LOCATION OF TEMPORARY UNIT IN BRAILLE TABLE- HAS BEEN CLEARED, EXECUTE -ONE LETTER SEARCH- AND GO TO EXIT EXECUTE -GET MATCHING ENTRY- EXIT

TWO LETTER SEARCH

SEARCH -BRAILLE TABLE- FOR ENTRY WHOSE FIRST TWO CHARACTERS EQUAL -FIRST AND SECOND LOOK-JP CHARACTERS OF TEMPORARY UNIT-

IF NO MATCHINS ENTRY, CLEAR -LOCATION OF TEMPORARY JNIT IN BRAILLE TABLE- AND GO TO EXIT

IF MATCHING ENTRY, STEP BACK IN TABLE TO LOCATE FIRST MATCHING ENTRY, AND SAVE LOCATION IN -LOCATION DE TEMPORARY UNIT IN BRAILLE TABLE-



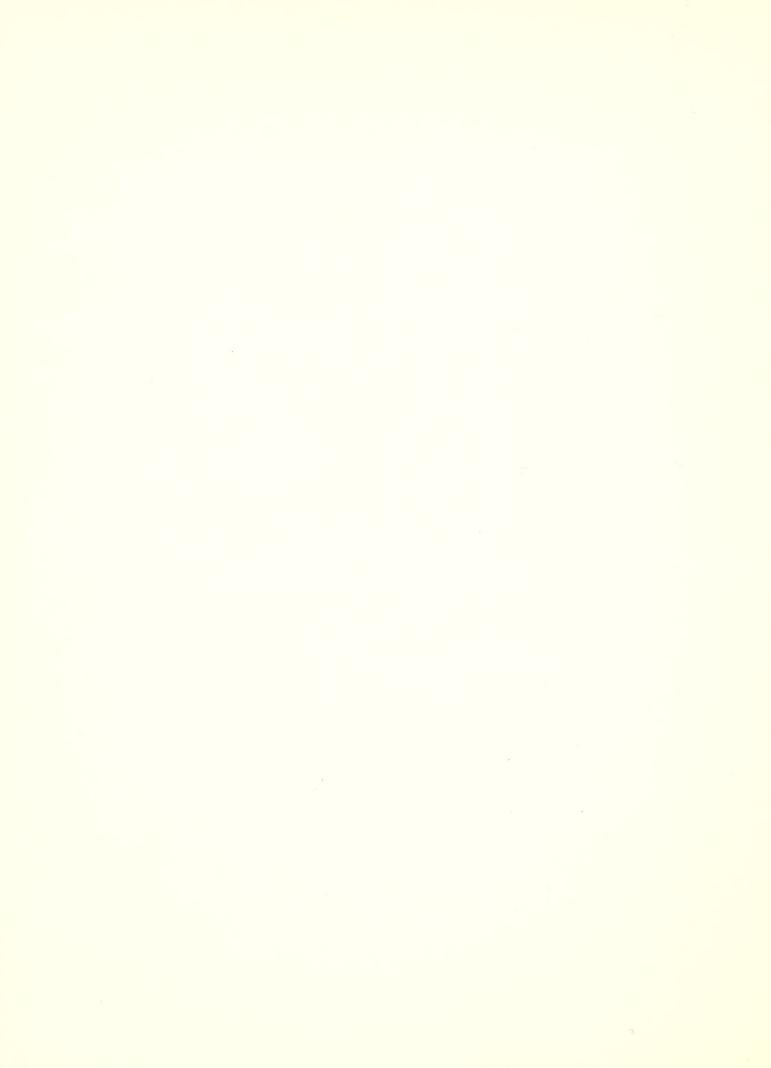
ONE LETTER SEARCH

SET -LOCATION OF TEMPORARY UNIT IN BRAILLE TABLE- BY LOOKING UP FIRST CHARACTER OF TEMPORARY JNIT IN -TABLE OF ONE CHARACTER LOCATIONS IN BRAILLE TABLE-

SET -LOCATION OF LAST CHARACTER OF TEMPORARY UNIT- EQUAL TO -LOCATION OF FIRST CHARACTER OF TEMPORARY UNIT- MOVE -END MARK FOR INKPRINT PART OF BRAILLE TABLE ENTRY- TO SECOND LOOK-UP CHARACTER OF TEMPORARY UNIT EXIT

## GET MATCHING ENTRY

- STEP B IF FIRST TWO CHARACTERS OF BRAILLE TABLE ENTRY SPECIFIED BY -LOCATION OF TEMPORARY UNIT IN BRAILLE TABLE- DO NOT MATCH -FIRST AND SECOND LOOK-UP CHARACTERS OF TEMPORARY UNIT-, EXECUTE -ONE LETTER SEARCH- AND GO TO EXIT
  - COMPARE INKPRINT CHARACTERS OF BRAILLE TABLE ENTRY WITH CHARACTERS OF TEXT BEGINNING WITH FIRST CHARACTER OF TEMPORARY UNIT
  - IF SUCCESSIVE CHARACTERS IN BRAILLE TABLE ENTRY DO NOT MATCH CHARACTERS OF TEXT, ADVANCE -LOCATION DF TEMPORARY UNIT IN BRAILLE TABLE- BY ONE ENTRY AND GO TO STEP B
  - IF CHARACTERS MATCH UNTIL -END MARK FOR INKPRINT PART OF BRAILLE TABLE ENTRY- IS ENCOUNTERED, SET -LOCATION OF LAST CHARACTER OF TEMPORARY UNIT- EQUAL TO LOCATION OF LAST MATCHING TEXT CHARACTER



ADD TO TEXT

IF -LOCATION OF FIRST CHARACTER OF PRIMARY JNIT- HAS ADVANCED PAST THE 168TH POSITION OF -TEXT-, MOVE CHARACTERS 149 TO 200 TO POSITIONS 1 TO 52 OF -TEXT-, DECREASING -LOCATION OF FIRST CHARACTER OF PRIMARY UNIT- AND -LOCATION FOR STURING NEXT CHARACTER IN TEXT- BY 148 CHARACTER LENGTHS

IF -LOCATION FOR STORING NEXT CHARACTER IN TEXT- MINUS -LOCATION OF FIRST CHARACTER OF PRIMARY JULY IS GREATER THAN 29: GO TO EXIT

STORE ZERO IN -MUMBER OF CHARACTERS ADDED TO TEXT-

STEP D IF -NUMBER OF CHARACTERS ADDED TO 1EXT-\_IS GREATER THAN 39, OR IF -LOCATION FOR STORING MEXT CHARACTER IN TEXT-\_IS GREATER THAN LOCATION OF 200TH CHARACTER DF -TEXT-, 30 TO FXIT

IF NEXT CHARACTER TO BE MOVED FROM -INPUT RECORD- IS -END OF RECORD CHARACTER-, OR IF -LOCATION OF NEXT CHARACTER TO BE MOVED FROM IMPUT RECORD- IS GREATER THAN LOCATION OF 72ND CHARACTER OF -INPUT RECORD-, GD TO STEP F

MOVE CHARACTER TO -TEXT- FROM -INPUT RECORD- UPDATING -LOCATION FOR STORING NEXT CHARACTER IN TEXT- AND -LOCATION OF NEXT CHARACTER TO 85 MOVED FROM INPUT RECORD- AND INCREASING BY 1 -NUMBER OF CHARACTERS ADDED TO TEXT-

GD TO STEP D

STEP F EXECUTE -READ INPUT-

SET -LOCATION OF NEXT CHARACTER TO BE MOVED FROM INPUT RECORD- EQUAL TO LOCATION OF FIRST CHARACTER OF -INPUT RECORD-

C PATS OT OS

READ INPUT

READ DATA FROM INKPRINT INPUT FILE TO -INPUT RECORD-EXIT

GET ALTERNATE UNIT

GET -FIRST AND SECOND LODY-UP CHARACTERS OF TEMPORARY UNIT- AND -LOCATION OF FIRST CHARACTER OF TEMPORARY UNIT- FROM CORRESPONDING PRIMARY UNIT DATA

SET -LOCATION OF TEMPORARY UNIT IN BRAILLE TABLE- EQUAL TO LOCATION OF NEXT ENTRY AFTER PRIMARY JULY ENTRY EXECUTE -SET MATCHING ENTRY-

GET -FIRST AND SECOND LOOK-UP CHARACTERS OF PRIMARY UNIT-, -LOCATION OF PRIMARY UNIT IN BRAILLE TABLE-, AND -LOCATION OF LAST CHARACTER OF PRIMARY UNIT- FROM CORRESPONDING TEMPORARY UNIT DATA

EXIT

PERFORM OPERATION

GET OPERATION NUMBER FROM BRAILLE TABLE ENTRY FOR PRINTRY UNIT

GO TO ROUTINE CORRESPONDING TO OPERATION NUMBER



OPERATION O ABSOLUTE UNIT SO TO -MAIN PROGRAM- STEP 6

OPERATION 1 GENERAL CONTRACTION

GO TO -CHECK EXCEPTIONS-

OPERATION' 2 ONLY INDIVIDUAL WORD

IF - TYPE OF LAST UNIT BEFORE PRIMARY UNIT - IS -LETTER TYPE-, 30 TO -MAIN PROGRAM- STEP 4

EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE-, GO TO -MAIN PROGRAM- STEP 4

GO TO -CHECK EXCEPTIONS-

OPERATION 3 NON-BEGINNING CONTRACTION

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -LETTER TYPE-, SO TO -CHECK EXCEPTIONS-

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -APOSTRUPHE TYPE-, GC TO STEP 8

SO TO -MAIN PROGRAM- STEP 4

STEP B IF -TYPE OF NEXT TO THE LAST UNIT BEFORE PRIMARY JULIT- IS -LETTER TYPE-, GO TO -CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4

OPERATION 4 NOT WORD BY ITSELF

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -LETTER TYPE-, GO TO -CHECK EXCEPTIONS-

EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE-, GO TO -CHECK EXCEPTIONS-

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- IS -HYPHEN
TYPE- OR -APOSTROPHE TYPE-, GO TO -CHECK EXCEPTIONS-

IF -TYPE OF SECUNDARY UNIT- IS -HYPHEN TYPE- OR -APOSTROPHE TYPE-, GO TO -CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4

OPERATION 6 BY, INTO, TO

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -LETTER
TYPE- CR -HYPHEN TYPE-, GC TO -MAIN PROGRAM- STEP 4
EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE- OR -NUMBER TYPE-, 30 TO -CHECK EXCEPTIONS-

IF -TYPE OF SECONDARY UNIT- IS -COMPOSITION SIGN TYPE-AND -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS NOT -COMPOSITION SIGN TYPE-, GO TO -CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4



OPERATION 7 INDIVIDUAL WORD NOT PUNCTUATED

IF - TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -SPACE TYPE-, 30 TO -CHECK EXCEPTIONS-

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS
-COMPOSITION SIGN-TYPE- AND -TYPE OF NEXT TO THE LAST
UNIT BEFORE PRIMARY UNIT- IS -SPACE TYPE-, GO TO
-CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4

QPERATION 8 BE

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT - IS -LETTER TYPE-, SG TO -MAIN PROGRAM- STEP 4

EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE-, GD TO -CHECK EXCEPTIONS-

GD TO -MAIN PROGRAM- STEP 4

DPERATION 9 IN

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- IS -LETTER TYPE-, SO TO -CHECK EXCEPTIONS-

EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE- OR -NUMBER TYPE-, 30 10 -CHECK EXCEPTIONS-

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- IS -APOSTROPHE TYPE- AND IF -TYPE OF NEXT TO THE LAST JNIT BEFORE PRIMARY UNIT- IS -LETTER TYPE-, GO TO -CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4

OPERATION 10 BESINNING CONTRACTION ONLY

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -LETTER TYPE-, GO TC -MAIN PROGRAM- STEP 4

GD TO -CHECK EXCEPTIONS-

OPERATION 11 INTERIOR CONTRACTION

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- IS -LETTER TYPE-, GU TO STEP B

GO TO -MAIN PRUGRAM- STEP 4

STEP B EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -LETTER TYPE-, GO TO -CHECK EXCEPTIONS-

GO TO -MAIN PROGRAM- STEP 4

OPERATION 12 FOR, CF, WITH, AND

IF -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- IS -LETTER TYPE-, 30 TO -MAIN PROGRAM- STEP 4

GO TO -CHECK EXCEPTIONS-

OPERATION 14 DASH

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -BEGINNING PUNCTUATION TYPE-; GO TO -MAIN PROGRAM- STEP 4

EXECUTE -GET SECUNDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -ENDING PUNCTUATION TYPE-, GO TO -MAIN PROGRAM- STEP 4

EXECUTE -ADD WORD TO BRAILLE LINE-

GO TO -MAIN PROGRAM- STEP 5

OPERATION 16 LOWER SIGN WORDS NOT CONTRACTED

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -HYPHEN TYPE-, OR -BYTYPE-, OR -BYTYPE-, OR -BYTYPE-, OR STEP D

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -COMPOSITION SIGN TYPE-, GC TO STEP B

GO TO -MAIN PROGRAM- STEP 4

STEP B IF -TYPE OF NEXT TO THE EAST UNIT BEFORE PRIMARY JULY IS -HYPHEN TYPE-, OR -DASH TYPE-, OR -BY INTO TO TYPE-, SO TO STEP D

30 TO -MAIN PROGRAM- STEP 4

STEP D IF -GRADE 1 INDICATOR- IS ON, GO TO -MAIN PROGRAM- STEP 4
GO TO -MAIN PROGRAM- STEP 6

#### OPERATION 17 APOSTROPHE

EXECUTE -GET SECONDARY UNIT-

IF - TYPE OF SECONDARY UNIT- IS -NUMBER TYPE-, GO TO -MAIN PROGRAM- STEP 4

GO TO -MAIN PROGRAM- STEP 5

### OPERATION 18 ALPHABETIC COMMA

IF THE THREE CHARACTERS IN -TEXT- PRECEDING FIRST CHARACTER OF PRIMARY UNIT ARE NUMBERS, GO TO -MAIN PROGRAM- STEP 4

SO TO -MAIN PROGRAM- STEP 6

## DPERATION 19 ALPHABETIC SLASH

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -NUMBER TYPE-, GO TO -MAIN PROGRAM- STEP 4

GO TO -MAIN PROGRAM- STEP 6

### DPERATION 20 NUMBER

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -NUMBER TYPE-, GC TC -MAIN PROGRAM- STEP 6

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -ENDING PUNCTUATION TYPE-, GO TO STEP B

GO TO -MAIN PROGRAM- STEP 4

STEP B IF -TYPE OF NEXT TO THE LAST UNIT BEFORE PRIMARY UNIT- IS -NUMBER TYPE-, GO TO -MAIN PROGRAM- STEP 6

GO TO -MAIN PROGRAM- STEP 4



OPERATION 21 ALPHADETIC HYPHEN

IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS -NUMBER TYPE-, GO TO SIEP B

GO TO -MAIN PROGRAM- STEP 6

STEP B EXECUTE -GET SECONDARY UNIT-

IF -TYPE OF SECONDARY UNIT- IS -NUMBER TYPE-, GO TO -MAIN PROGRAM- STEP 4

GO TO -MAIN PROGRAM- STEP 5

DPERATION 22 NUMBER HYPHEN

SET -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-EQUAL TO -LOCATION OF LAST CHARACTER OF PRIMARY UNIT-

STEP B INCREASE -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-BY LENGTH OF ONE CHARACTER

IF NEXT TEXT CHARACTER IS A NUMBER, GO TO STEP B

IF NEXT TEXT CHARACTER IS SLASH, GO TO -MAIN PROGRAM-STEP 4

GO TO-MAIN PROGRAM- STEP 6

OPERATION 24 LEFT DOUBLE QUOTE

IF -QUOTE LEVEL- IS 0 CR 1, SET -QUOTE LEVEL- TO 1 AND GO TO -USE CORRESPONDING QUOTES-

IF -QUOTE LEVEL- IS 2 OR 3, SET -QUOTE LEVEL- TO 3 AND GD TO -USE CORRESPONDING QUOTES-

IF -QUOTE LEVEL- IS 4, 5, OR 6, SET -QUOTE LEVEL- TO 5;
 RESET -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR-,
 SET -LEVEL 2 INVERTED QUOTES USED INDICATOR- AND GU TO
 TINVERT QUOTES-

OPERATION 25 LEFT SINGLE QUOTE

IF -QUOTE LEVEL- IS O: SET -QUOTE LEVEL- TO 4 AND GO TO
-INVERT QUOTES-

IF -QUOTE LEVEL- IS 1, 2, OR 3, SET -QUOTE LEVEL- TO 2, RESET -LEVEL 2 INVERTED QUOTES USED INDICATOR-, SET -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR- AND GO TO -USE CORRESPONDING QUOTES-

IF -QUOTE LEVEL- IS 4, SET -QUOTE LEVEL- TO 4 AND GO TO -INVERT QUOTES-

IF -QUOTE LEVEL- IS 5 OR 6, SET -QUOTE LEVEL- TO 6 AND GO TO -INVERT QUOTES-



### OPERATION 26 RIGHT SINGLE CUOTE

- IF -QUOTE LEVEL IS O, GO TO STEP B
- IF -CUOTE LEVEL- IS 1; SET -QUOTE LEVEL- TO 0 AND GD TO -USE CORRESPONDING QUOTES-
- IF -QUOTE LEVEL- IS 2. SET -QUOTE LEVEL- TO 1 AND GJ 13 -USE CORRESPONDING QUOTES-
- IF -OLOTE LEVEL- IS 3, SET -QUETE LEVEL- TO 0 AND GU TO -USE CORRESPONDING QUOTES-
- IF -QUOTE LEVEL- IS 4 OR 5, SET -QUOTE LEVEL- TO 0 AND GO TO -- INVERT QUOTES-
- IF -QUOTE LEVEL- IS 6, SET -QUOTE LEVEL- TO 5, RESET -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR-, SET -LEVEL 2 INVERTED QUOTES USED INDICATOR- AND GO TO -INVERT QUOTES-
- STEP B IF -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR- IS ON, SET -QUOTE LEVEL- TC 1 AND GO TO -USE CORRESPONDING QUOTES-
  - IF -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR- IS DEF, SET -QUOTE LEVEL- TO 0 AND GO TO -USE CORRESPONDING QUOTES-

### OPERATION 27 RIGHT DOUBLE QUOTE

- IF -QUOTE LEVEL- IS 0, GO TO STEP B
- IF -QUOTE LEVEL- IS 1 OR 2, SET -QUOTE LEVEL- TO 0 AND GO TO -USE CORRESPONDING QUOTES-
- IF -QUOTE LEVEL- IS 3, SET -QUOTE LEVEL- TO 2, RESET -LEVEL 2 INVERTED QUOTES USED INDICATOR-, SET -LEVEL 2 CORRESPONDING QUOTES USED INDICATOR- AND GO TO -JSE CORRESPONDING QUOTES-
- IF -QUOTE LEVEL- IS 4, SET -QUOTE LEVEL- TO 0 AND GO TO -INVERT QUOTES-
- IF -QUOTE LEVEL- IS 5, SET -QUOTE LEVEL- TO 4 AND GO TO -INVERT QUOTES-
- IF -QUOTE LEVEL- IS 6, SET -QUOTE LEVEL- TO 0 AND GO TO -INVERT QUOTES-
- STEP B IF -LEVEL 2 INVERTED QUOTES USED INDICATOR- IS ON, SET -QUOTE LEVEL- TO 4 AND GO TO -INVERT QUOTES-
  - IF -LEVEL 2 INVERTED QUOTES USED INDICATOR- IS OFF, SET
    -QUOTE LEVEL- TO 0 AND GO TO -USE CORRESPONDING
    QUOTES-

# OPERATION 29 COMPOSITION SIGN

- IF -TYPE OF LAST UNIT BEFORE PRIMARY UNIT- IS
  -COMPOSITION SIGN TYPE-, MOVE -TYPE OF NEXT TO THE
  LAST UNIT BEFORE PRIMARY UNIT- TO -TYPE OF LAST UNIT
  BEFORE PRIMARY UNIT-
- GO TO -MAIN PROGRAM- STEP 6



GET SECONDARY UNIT

SET -LOCATION OF FIRST CHARACTER OF TEMPORARY JAIL- EQUAL TO LUCATION OF CHARACTER EQUADMING LAST CHARACTER OF PRIMARY UNIT

EXECUTE -GET TRANSLATION UNIT-

TRANSFER TEMPORARY UNIT DATA TO -LOCATION OF FIRST CHARACTER OF SECUNDARY UNIT-, -LOCATION OF LAST CHARACTER OF SECUNDARY UNIT-, -LOCATION OF SECONDARY UNIT IN BRAILLE TABLE-, AND -FIRST AND SECOND LOCK-UP CHARACTERS OF SECUNDARY UNIT-

MOVE LEFT END TYPE FROM BRAILLE TABLE CHTRY FOR SECONDARY UNIT TO "TYPE OF SECONDARY UNIT"

EXIT

USE CORRESPONDING QUOTES

GO TO -MAIN PROGRAM- "STEP 6

INVERT QUOTES

GO TO -MAIN PROGRAM- STEP 4

CHECK EXCEPTIONS

IF -GRADE 1 INDICATOR- IS ON, GO TO -MAIN PROGRAM- STEP 4
SET -CONTRACTION IDENTIFICATION NUMBER- FROM BRAILLE
TABLE ENTRY FOR PRIMARY UNIT

LOOK UP -CONTRACTION IDENTIFICATION NUMBER- IN -TABLE OF EXCEPTION TABLE LOCATIONS- AND GET -LOCATION OF PRECEDING CHARACTERS SUBSECTION- AND -LOCATION OF SUCCEEDING CHARACTERS SUBSECTION-

IF -LOCATION OF PRECEDING CHARACTERS SUBSECTIONS- IS ZERO. GO TO STEP N

SET -LOCATION OF EXCEPTION TABLE ENTRY- EQUAL TO -LOCATION OF PRECEDING CHARACTERS SUBSECTION-

SET -LOCATION OF CHARACTER PRECEDING PRIMARY UNIT- EQUAL TO -LOCATION OF FIRST CHARACTER OF PRIMARY JULIT- MINUS ONE CHARACTER LENGTH

STEP B IF ENTRY LENGTH IN EXCEPTION TABLE ENTRY IS ZERO: GU TO STEP N

IF FIRST INKPRINT CHARACTER OF EXCEPTION TABLE ENTRY EQUALS CHARACTER PRECEDING PRIMARY UNIT: GO TO STEP D

IF FIRST INKPRINT CHARACTER OF EXCEPTION TABLE ENTRY IS GREATER THAN CHARACTER PRECEDING PRIMARY UNIT: GO TO STEP N

INCREASE -LOCATION OF EXCEPTION TABLE ENTRY- BY ENTRY LENGTH GIVEN IN EXCEPTION TABLE ENTRY
GO TO STEP B

STEP D SET -LOCATION OF NEXT EXCEPTION TABLE CHARACTER- EQUAL TO LOCATION OF SECOND INEPRINT CHARACTER IN EXCEPTION TABLE ENTRY

SET -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-EQUAL TO -LOCATION OF CHARACTER PRECEDING PRIMARY UNIT- MINUS ONE CHARACTER LENGTH



STEP F IF NEXT EXCEPTION TAPLE CHARACTER IS -END MARK IN EXCEPTION TAPLE-, GC TC STEP J

IF EXCEPTION TABLE CHARACTER DOFS NOT EQUAL TEXT CHARACTER, GO TO STEP H

DECREASE -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-BY LENGTH OF ENE CHARACTER

INCREASE -LOCATION OF NEXT EXCEPTION TABLE CHARACTER- FY ONE CHARACTER LENGTH

GO TO STEP F

STEP H INCREASE -LCCATION OF EXCEPTION TABLE ENTRY- BY ENTRY LENGTH GIVEN IN EXCEPTION TABLE ENTRY
GO TO STEP B

STEP J SET -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-EQUAL TO -LOCATION OF LAST CHARACTER OF PRIMARY UNIT-

STEP L INCREASE -LOCATION OF NEXT TEXT CHARACTER TO BE COMPARED-AND -LOCATION OF NEXT EXCEPTION TABLE CHARACTER- BY ONE CHARACTER LENGTH

IF NEXT EXCEPTION TABLE CHARACTER IS -ENC MARK IN EXCEPTION TABLE-, GO TO STEP X

IF EXCEPTION TABLE CHARACTER EQUALS TEXT CHARACTER, GO TO STEP L

GO TO STEP H

STEP N IF -LOCATION OF SUCCEEDING CHARACTERS SUBSECTION- IS ZERO, GO TO STEP Z

SET -LOCATION OF CHARACTER FOLLOWING PRIMARY UNIT- EQUAL TO -LOCATION OF LAST, CHARACTER OF PRIMARY UNIT- PLUS LENGTH OF ONE CHARACTER

SET -LOCATION OF EXCEPTION TABLE ENTRY- EQUAL TO -LOCATION OF SUCCEEDING CHARACTERS SUBSECTION-

STEP P IF ENTRY LEAGTH IN EXCEPTION TABLE ENTRY IS ZERO, GO TO STEP Z

IF FIRST INKPRINT CHARACTER OF EXCEPTION TABLE ENTRY EQUALS CHARACTER FOLLOWING PRIMARY UNIT, GO TO STEP T

IF FIRST INKPRINT CHARACTER OF EXCEPTION TABLE ENTRY IS GREATER THAN CHARACTER FOLLOWING PRIMARY UNIT, GO TO STEP Z

STEP R INCREASE -LOCATION OF EXCEPTION TABLE ENTRY—BY ENTRY
LENGTH GIVEN IN EXCEPTION TABLE ENTRY
GD TO STEP P

STEP T SET -LOCATION OF NEXT TEXT CHARACTER TO BE COMPAREDLEGUAL TO -LOCATION OF CHARACTER FOLLOWING PRIMARY
UNIT-

SET -LOCATION OF NEXT EXCEPTION TABLE CHARACTER- EQUAL TO LOCATION OF FIRST INKPRINT CHARACTER OF EXCEPTION TABLE ENTRY



STEP V INCREASE -LUCATION OF NEXT EXCEPTION TABLE CHARACTER- PY LENGTH OF ONE CHARACTER

> IF VEXT SYCEPTION TABLE CHARACTER IS -END MARK IN EXCEPTION TABLE-, SO TO STEP X

INCREASE -LUCATION OF NEXT TEXT CHARACTER TO BE COMPARED-BY EDUCTH OF ONE CHARACTER

IF EXCEPTION TARLE CHARACTER EQUALS TEXT CHARACTER, SO TO STEP V

GO TO STEP R

STEP X IF FIRST CHARACTER OF EXCEPTION TABLE ENTRY IS MINUS SIGN, GU TO -MAI, PROGRAM- STEP 4

IF FIRST CHARACTER OF EXCEPTION TABLE ENTRY IS PLUS SIGN, SO TO -MAIN PROGRAM- STEP 6

STEP 7 GO TO -MAIN PROGRAM- STEP 5

#### ADD TO BRAILLE WORD

STEP B IF -ADD TO RUNNING HEAD INDICATOR- IS ON, GO TO STEP A

IF -ADD TO INKPRINT PAGE NUMBER INDICATOR- IS ON, GO TO

STEP R

SET -LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE-EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN BRAILLE TABLE ENTRY FOR PRIMARY JUIT

IF -NEW LINE INDICATOR- IS ON, GO TO STEP M

STEP D IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -BRAILLE END CHARACTER-, GO TO STEP S

STEP E IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CODE FUR HYPHEN-, GO TO STEP J

IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CDDF FDR SPACE-, SO TO STEP H

JE NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CODE FOR TO OF INTO-, OR -CODE FOR BY-, UR -CODE FOR TO-, GJ 10 STEP L

IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CODE FOR UNSPACED WITH-, OR -CODE FOR UNSPACED OF-, OR -CODE FOR UNSPACED FOR-, GO TO STEP J

IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CODE FOR NUMBER COMMA- OR -CODE FOR NUMBER HYPHEN-, GO TO STEP J

STEP F ADD BRAILLE CHARACTER FROM -BRAILLE TABLE- TO -BRAILLE WORD-

INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY I

INCREASE -LUCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE- AND -LUCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE WORD- BY LENGTH OF UNE BRAILLE CHARACTER

IF -NUMBER OF PRAILER CHARACTERS IN BRAILLE WORD- IS LESS THAN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, GO TO STEP D

PLACE -BRAILLE END CHARACTER- AFTER LAST BRAILLE CHARACTER ADDED TO -BRAILLE WORD-

EXECUTE -ADD WORD TO BRAILLE LINE-GO TO STEP D



STEP G PLACE -BRAILLE END CHARACTER- AFTER LAST BRAILLE
CHARACTER ADDED TO -BRAILLE WORD-

GO TO STEP V

STEP H IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE NORD- PLUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- FQUALS -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, GC TC STEP K

STEP J ADD BRAILLE CHARACTER FROM -DRAILLE TABLE- TO -BRAILLE WORD- INCREASE -AUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-

BY 1
STEP K PLACE -BRAILLE FND CHARACTER- AFTER LAST BRAILLE
CHARACTER ADDED TO -BRAILLE WORDEXECUTE -ADD WORD TO BRAILLE LINEGOT TO STEP V

STEP L IF -NUMBER OF PRAILLE CHARACTERS IN BRAILLE LINE- PLUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD- PLUS I IS LESS THAN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, SET -BY INTO TO INDICATOR-

GO TO STEP F

STEP M IF NEXT BRAILLE CHARACTER IN -PRAILLE TABLE- IS -BRAILLE END CHARACTER-, GC TC STEP V

IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -CODE FOR SPACE-, GO TO STEP V

IF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON: EXECUTE -INSERT INKPRINT PAGE LINE- AND CO TO STEP 8

IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT RUNNING HEAD- AND GO TO STEP B

RESET -NEW LINE INDICATOR-

GO TO STEP E

STEP N SET -LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE-EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN BRAILLE TABLE ENTRY FOR PRIMARY UNIT

STEP P IF NEXT BRAILLE CHARACTER IN -BRAILLE TABLE- IS -BRAILLE END CHARACTER-, GO TO STEP Q

ADD BRAILLE CHARACTER FROM -BRAILLE TABLE- TO -RUNNING HEAD-

INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE- A'ND -LOCATION FOR STURING NEXT BRAILLE CHARACTER IN RUNNING HEAD- BY LENGTH OF ONE BRAILLE CHARACTER

INCREASE -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-BY 1

GO TO STEP P

STEP Q PLACE -BRAILLE END CHARACTER- AFTER LAST BRAILLE CHARACTER STORED IN RUNNING HEAD.

GO TO STEP V

STEP R SET -LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE-EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN BRAILLE TABLE ENTRY FOR PRIMARY UNIT



STEP S TIP NEXT BRAITLE CHARACTER IN -BRAILLE TABLE- IS -BRAILLE END CHARACTEP-, SO TO STEP T

IF NEXT BRAILLE CHARACTER, IN -BRAILLE TABLE- IS -CODE FOR PERIOD-, GO TO STEP U

ADD BRAILLE CHARACTER FROM -BRAILLE TABLE- TO -INKPRINT PAGE NUMBER TRANSLATED-

INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN BRAILLE TABLE- AND -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN INKPRINT PAGE NUMBER TRANSLATED- BY LENGTH OF ONE BRAILLE CHARACTER

INCREASE -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- BY 1

GO TO STEP S

STEP T PLACE -BRAILLE END CHARACTER- AFTER LAST BRAILLE
CHARACTER STORED IN -INKPRINT PAGE NUMBER TRANSLATEDGO TO STEP V

STEP U RESET -ADD IN INKPRINT PAGE NUMBER INDICATOR-GO TO STEP T

STEP V EXIT

ADD WORD TO BRAILLE LINE

STEP B IF FIRST BRAILLE CHARACTER OF -BRAILLE WORD- IS -BRAILLE END CHARACTER-, GO TO STEP V

IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- PLUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD- IS GREATER THAN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-: GO TO STEP E

IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- PLUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD- IS EQUAL TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, GO TO STEP D

STEP C INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-BY -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-

MOVE BRAILLE CHARACTERS OF -BRAILLE WORD- TO -BRAILLE LINE- UPDATING -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE-

MOVE -BRAILLE END CHARACTER- TO NEXT BRAILLE CHARACTER IN -BRAILLE LINE-

MOVE -BRAILLE END CHARACTER- TO FIRST CHARACTER OF -BRAILLE WORD-

MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE WORD- EQUAL TO LOCATION OF FIRST CHARACTER IN -8RAILLE WORD-

GO TO STEP V

STEP D IF BRAILLE CHARACTER BEFORE END CHARACTER IN -BRAILLE WORD- IS NOT -CODE FOR NUMBER COMMA-, GO TO STEP C

STEP E IF -BY INTO TO INDICATOR- IS ON, GO TO STEP L

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STEP F
       EXECUTE -END BRAILLE LINE-
        EXAMINE FIRST PRAILLE CHARACTER IN -ERAILLE WORD- UR, IF
           CAPITAL, NEXT CHARACTER AFTER -CODE FOR CAPITAL-
        IF WORD DESINS WITH -CODE FOR SPECIAL H-, REPLACE WITH
           -CODE FUR HIS- AND GO TO STEP J
        IF WORD BEGINS WITH -CODE FOR SPECIAL W- AND MEXT LETTER
           IS -CODE FOR A-, REPLACE WITH -CODE FOR WAS- AND GU TU
           STEP J
       IF WORD BEGINS WITH -CODE FOR SPECIAL W-, REPLACE WITH
           -CODE FOR WERE- AND GO TO STEP J
       IF WORD BEGINS WITH -CODE FOR SPECIAL EN-, REPLACE WITH
           -CODE FOR ENCUGH- AND GO TO STEP J
        IF WORD BEGINS WITH -CODE FOR SPECIAL I-: REPLACE WITH
           -CODE FOR IN- AND GO TO STEP K
        IF WORD BEGINS WITH -CODE FOR SPECIAL C-, REPLACE WITH
           -CODE FOR COM- AND GO TO STEP J
        IF WORD BEGINS WITH -CODE FOR SPECIAL B+, REPLACE WITH
           -CODE FOR BE- AND GO TO STEP K
        IF -NUMBER HYPHEN INDICATOR- IS ON: GO TO STEP U
STEP G
STEP H
        TRADENT - TUDEXE - NO STADIONI TAMBER X SCRI- - IL
          RUN-OVER-
        IF -INSERT RUNNING HEAD INDICATOR- IS ON. EXECUTE -INSERT
           RUNNING HEAD-
       RESET -NEW LINE INDICATOR-
        GO TO STEP B
STEP J
       BYPASS NEXT TWO BRAILLE CHARACTERS AND SHIFT REMAINDER OF
           WORD AND END CHARACTER TWO POSITIONS TO THE LEFT
        DECREASE -- NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-
          BY 2
        GO TO STEP G
STEP K
        BYPASS NEXT BRAILLE CHARACTER AND SHIFT REMAINDER OF WORD
           AND END CHARACTER ONE POSITION TO THE LEFT
       DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-
           BY 1
        GO TO STEP G
STEP L
        BEGIN SCANNING BRAILLE CHARACTERS OF -BRAILLE WORD-
STEP M
        IF NEXT BRAILLE CHARACTER OF -BRAILLE WORD- IS -CODE FOR
           TO OF INTC-, GC TO STEP N
        IF NEXT BRAILLE CHARACTER OF -BRAILLE WORD- IS -CODE FOR
           BY- GO TO STEP Q
        IF NEXT BRAILLE CHARACTER OF -BRAILLE WORD- IS -CODE FOR
           TO- SO TO STEP P
        MOVE NEXT BRAILLE CHARACTER OF -PRAILLE WORD- TO -BRAILLE
           LINE- INCREASING -NUPBER OF BRAILLE CHARACTERS IN
           BRAILLE LINE- BY 1 AND DECREASING -NUMBER OF BRAILLE
           CHARACTERS IN BRAILLE WORD- BY I
        INCREASE LOCATION FOR SCANNING -BRAILLE WORD- AND
           -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN
           BRAILLE LINE- BY BRAILLE CHARACTER LENGTH AND GO TO
           STEP M
STEP N
       REPLACE -CODE FOR IN OF INTO- IN -BRAILLE LINE- WITH
          -CODE FOR IX-
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STEP P

GO TO STEP R

ADD -CODE FOR T- AND -CODE FOR O- TO -BRAILLE LINE- AND



STEP Q ADD -CODE FOR B- AND -CODE FOR Y- TO -BRAILLE LINE-SIEP R ADD -CODE FOR SPACE- AND -BRAILLE END CHARACTER- TO -BRAILLE LINE-INCREASE -GUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-3 Y 2 DEGREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORE-BY I SHIFT REMAINING CHARACTERS OF -BRAILLE WORD- AND END CHARACTER TO EXTREME LEFT OF -BRAILLE WORD-RESET -BY INTO TO INDICATOR-IF -BRAILLE WORD- CONTAINS -CODE FOR SPECIAL H-, REPLACE WITH -CODE FUR HIS- AND GO TU STEP S IF -BRAILLE WORD- CONTAINS -CODE FOR SPECIAL EN- REPLACE WITH -CODE FOR ENCUGH- AND GO TO STEP S IF -BRAILLE WORD- CONTAINS -CODE FOR SPECIAL B-, KEPLACE WITH -CODE FOR BE- AND GO TO STEP T GO TO STEP F STEP S BYPASS NEXT TWO BRAILLE CHARACTERS AND SHIFT REMAINDER OF WORD AND END CHARACTER TWO POSITIONS TO THE LEFT DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD~ BY 2 GO TO STEP F STEP T BYPASS NEXT BRAILLE CHARACTER AND SHIFT REMAINDER OF WORD AND END CHARACTER ONE POSITION TO THE LEFT DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY 1 GO TO STEP F STEP U SAVE -INDEX AROUNT- IN -INDEX AROUNT REFERENCE- BVCM 1 TO -INDEX AMOUNT-EXECUTE -INDENT RUNOVER-RESTORE -INDEX AMOUNT- FROM -INDEX AMOUNT REFERENCE-MOVE -CODE FOR NUMBER SIGN- TO FIRST BRAILLE CHARACTER IN -BRAILLE WORD-RESET -NUMBER HYPHEN INDICATOR-GO TO STEP H RESET -BY INTO TO INDICATOR-STEP V EXIT END BRAILLE LINE IF FIRST BRAILLE CHARACTER OF -BRAILLE LINE- IS -BRAILLE END CHARACTER-, GO TO STEP P IF CHARACTER BEFORE END CHARACTER IS NOT -CODE FOR NUMBER COMMA-, GO TO STEP B ADD -BIS NUMBER HYPHEN- AND -BRAILLE END CHARACTER- AFTER

-CODE FOR NUMBER COMMA- IN -BRAILLE LINE-, INCREASING -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LIVE- BY 1, AND GU TO STEP D

IF CHARACTER BEFORE END CHARACTER IS -CODE FOR NUMBER STEP B HYPHEN: - SET -NUMBER HYPHEN INDICATOR-

IF -CENTERING INDICATOR- IS ON, GO TO STEP H STEP D IF -ALIGN RIGHT MARGIN INDICATOR- IS ON, GO TO STEP Y



- STEP F IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- IS LESS THAN 6. ADD -CODE FOR SPACE- CHARACTERS UNTIL -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- FOUALS 6 AND ADD -ERAILLE END CHARACTER-
  - IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS ON, EXECUTE -INSERT BRAILLE PAGE NUMBER INTO BRAILLE LINE-
  - IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON, EXECUTE
    -INSERT INKPRINT PAGE NUMBER INTO BRAILLE LINE-
  - IF CHARACTER BEFORE END CHARACTER IS -CODE FOR SPACE+, SHIFT -BRAILLE END CHARACTER- ONE POSITION TO THE LEFT AND DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY 1
  - REPLACE -BRAILLE END CHARACTER- IN -BRAILLE LINE- WITH -END OF LINE CODE- AND ANNEX -BRAILLE END CHARACTER- TO THE RIGHT
  - IF -INTERLINE FORMAT INDICATOR- IS ON, MOVE LOCATION OF FIRST CHARACTER OF -DATA FOR INTERLINE- TO -LOCATION OF NEXT CODE TO BE ADDED TO CUTPUT- AND EXECUTE -ADD TO OUTPUT DATA-
  - MOVE LOCATION OF FIRST CHARACTER OF -BRAILLE LINE- TO -LOCATION OF NEXT CODE TO PE ACCED TO CUTPUT AND EXECUTE -ADD TO CUTPUT CATA-
  - STORE -BRAILLE END CHARACTER- IN FIRST CHARACTER IN -BRAILLE LINE-
  - MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-
  - MOVE LOCATION OF FIRST CHARACTER IN -BRAILLE LINE- TO -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE-
  - INCREASE -BRAILLE LINE NUMBER- BY I
  - IF -BRAILLE LINE NUMBER+ IS GREATER THAN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE+: EXECUTE -END BRAILLE PAGE BASIC+ AND STORE 1 IN -BRAILLE LINE NUMBER-
  - EXECUTE -SET BRAILLE LINE LENGTH-GO TO STEP P
- STEP H IF BRAILLE CHARACTER BEFORE END CHARACTER IS -CODE FOR SPACE-, SHIFT END CHARACTER ONE POSITION TO THE LEFT DECREASING -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- PY 1
  - SET -CENTERING SHIFT FACTOR- EQUAL TO ONE-HALF THE DIFFERENCE BETWEEN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- AND -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-
  - IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS DN: MOVE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED- TO -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- AND GO TO STEP L
  - IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON, MOVE -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- TO -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- AND GO TO STEP L



STEP J SHIFT CHARACTERS AND END CHARACTER IN -BRAILLE LINE- IJ
THE RIGHT THE MUMBER OF BRAILLE CHARACTERS SPECIFIED
BY -CENTERING SHIFT FACTOR-

INCREASE - NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-BY -CENTERING SHIFT FACTUR-

FILL -BRAILLE LINE- TO THE LEFT OF SHIFTED CHARACTERS WITH -CODE FOR SPACE- CHARACTERS

GO TO STEP F

- STEP L IF THE AMOUNT, -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS 3 MINUS -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- MINUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, IS LESS THAN -CENTERING SHIFT FACTOR-, CHANGE -CENTERING SHIFT FACTOR- TO THE SMALLER AMOUNT GO TO STEP J
- STEP N IF BRAILLE CHARACTER BEFORE END CHARACTER IS -CODE FOR SPACE-, SHIFT END CHARACTER ONE POSITION TO THE LEFT DECREASING -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY I
  - SET -RIGHT MARGIN SHIFT FACTOR- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-
  - IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS ON: DECREASE -RIGHT MARGIN SHIFT FACTUR- BY 3 AND BY -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED-
  - IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON:

    DECREASE -RIGHT MARGIN SHIFT FACTOR- BY 3 AND BY

    -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER

    TRANSLATED-
  - BEGINNING WITH END CHARACTER IN -BRAILLE (INE- AND PROCESSING RIGHT TO LEFT SHIFT CHARACTERS TO THE RIGHT THE AMOUNT SPECIFIED BY -RIGHT MARGIN SHIFT FACTOR-UNTIL -RIGHT MARGIN SIGNAL CODE- CHARACTER HAS BEEN SHIFTED
  - FILL AREA BETWEEN ORIGINAL -RIGHT MARGIN SIGNAL CODE- AND SHIFTED -RIGHT MARGIN SIGNAL CODE- WITH THE SAME SIGNAL CODE
  - INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LIVE-BY -RIGHT MARGIN SHIFT FACTOR-
  - IF -INSERT LEADER DUTS INDICATOR- IS OFF, GO TO STEP F
  - IF -RIGHT MARGIN SHIFT FACTUR- IS LESS THAN 3. GO TO STEP F
  - IN -BRAILLE LINE- REPLACE -RIGHT MARGIN SIGNAL CODE-CHARACTERS, EXCEPT THE FIRST AND THE LAST, WITH -CODE FOR DOT 5-

GO TO STEP F

STEP P RESET -ALIGN RIGHT MARGIN INDICATOR- AND -INSERT LEADER
DOTS INDICATOREXIT



INSERT BRAILLE PAGE NUMBER INTO BRAILLE LINE

EXECUTE -SPACE CUT BRAILLE LINE
TE -LEAVE BLANK AREA FOR BRAILLE PAGE

IF -LEAVE BLANK AREA FOR BRAILLE PAGE NUMBER INDICATOR-IS ON, GO TO EXIT

MOVE -BRAILLE PAGE NUMBER TRANSLATED- TO -BRAILLE LINE-ALIGNED SC THAT LAST CHARACTER OF NUMBER REPLACES LAST SPACE OF LINE

EXIT

INSERT INKPRINT PAGE NUMBER INTO BRAILLE LINE - EXECUTE - SPACE OUT BRAILLE LINE-

MOVE -INKPRINT PAGE NUMBER TRANSLATED- TO -BRAILLE LINE-ALIGNED SC THAT LAST CHARACTER OF NUMBER REPLACES LAST SPACE OF LINE

EXECUTE -UPDATE INKPRINT PAGE NUMBER-RESET -INSERT INKPRINT PAGE LINE INDICATOR-EXIT

UPDATE INKPRINT PAGE NUMBER

SCAN -INKPRINT PAGE NUMBER TRANSLATED- FOR -CODE FOR HYPHEN- OR -CCDE FOR NUMBER HYPHEN-

IF NUMBER CENTAINS A HYPHEN, GC TO STEP D

STEP B IF FIRST BRAILLE CHARACTER OF -INKPRINT PAGE NUMBER TRANSLATED- IS -CODE FOR NUMBER SIGN- OR -CODE FOR LETTER SIGN- GC TC STEP F

LOCATE FIRST CHARACTER OF -INKPRINT PAGE NUMBER
TRANSLATED- IN -TABLE OF BRAILLE LETTERS- AND MOVE
CODE FROM NEXT SUCCEEDING ENTRY TO FIRST CHARACTER OF
-INKPRINT PAGE NUMBER TRANSLATED-

GO TO EXIT

STEP D DECREASE -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- BY NUMBER OF BRAILLE CHARACTERS TO THE LEFT OF THE HYPHEN

SHIFT SECOND PART OF NUMBER AND BRAILLE END CHARACTER TO THE LEFT SO THAT FIRST CHARACTER AFTER HYPHEN REPLACES S': OND CHARACTER OF -INKPRINT PAGE NUMBER TRANSLATED-GO 'D STEP B

STEP F SHIFT BRAILLE CHARACTERS AND BRAILLE END CHARACTER OF
-INKPRINT PAGE NUMBER TRANSLATED- ONE BRAILLE
CHARACTER TO THE RIGHT AND INCREASE -NUMBER OF BRAILLE
CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- BY 1
MOVE -CODE FOR A- TO FIRST CHARACTER OF -INKPRINT PAGE
NUMBER TRANSLATEDEXIT

SPACE OUT BRAILLE LINE

BEGINNING WITH -LCCATION FOR STORING NEXT BRAILLE
CHARACTER IN BRAILLE LINE- STORE -CODE FOR SPACE- IN
SUCCESSIVE POSITIONS IN -BRAILLE LINE- UNTIL -NUMBER
OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUALS -MAXIMUM
NUMBER OF BRAILLE CHARACTERS IN FULL LINE-

PLACE -BRAILLE END CHARACTER- AFTER LAST SPACE STORED IN -BRAILLE LINE-

EXIT



INDENT RUN-JVER

SHIFT BRAILLE CHARACTERS OF -BRAILLE WORD- AND END CHARACTER TO THE RIGHT THE NUMBER OF POSITIONS SPECIFIED IN -INDEX AMOUNT-

FILL AREA TO THE LEFT OF THE LAST SHIFTED CHARACTER WITH -CODE FOR SPACE- CHARACTERS

INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY -INDEX AMOUNT+

EXIT

# SET BRAILLE LINE LENGTH

SET -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-

RESET -INSERT BRAILLE PAGE NUMBER INDICATOR-, -INSERT INKPRINT PAGE NUMBER INDICATOR-, AND -INSERT RUNNING HEAD INDICATOR-

IF -TEXTBOOK FORMAT INDICATOR- IS ON GO TO STEP D

IF -MAGAZINE FORMAT NUMBERED ODD INDICATOR- IS DN, DR IF -MAGAZINE FORMAT NUMBERED EVEN INDICATOR- IS DN, GO FO STEP U

IF -BRAILLE PAGE NUMBER- IS ODD AND IF -BRAILLE LINE NUMBER- IS 1; SET -INSERT RUNNING HEAD INDICATOR- AND 30 TO STEP W

STEP B IF -CENTERING INDICATOR- IS ON: MOVE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN CENTERED LINE- TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- AND GO TO STEP W

IF -ALTERNATE RIGHT MARGIN INDICATOR- IS ON, MOVE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN ALTERNATE LINE- TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

GO TO STEP W

STEP D IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP F

IF -BRAILLE LINE NUMBER- IS 1, SET -INSERT RUNNING HEAD INDICATOR- AND GO TO STEP W

IF -BRAILLE LINE NUMBER- IS EQUAL TO -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-, SET -INSERT BRAILLE PAGE NUMBER INDICATOR- AND SET -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED- MINUS 3

GO TO STEP H

STEP F IF -BRAILLE LINE NUMBER- IS 1, SET -INSERT INKPRINT PAGE NUMBER INDICATOR- AND SET -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- MINUS 3

STEP H IF -CENTERING INDICATOR- IS ON, GO TO STEP J
IF -ALTERNATE RIGHT MARGIN INDICATOR- IS ON, GO TO STEP P
GO TO STEP W



- STEP J IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON: MOVE -NUMBER OF BRAILLE CHARACTERS IN IMMPRINT PAGE NUMBER TRANSLATED- TO -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER AND GO TO STEP N
  - IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS ON, MOVE -NUMBER OF BRAILLE CHARACTERS IN PRAILLE PAGE NUMBER TRANSLATED- TO -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- AND GO TO STEP N
- STEP L MONE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN CENTERED LINE- TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- AND GO TO STEP W
- STEP N IF -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-MINUS TWICE -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- MINUS 6 IS EQUAL TO OR GREATER THAN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN CENTERED LINE-, GO TO STEP L
  - SET -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS -NUMBER OF BRAILLE CHARACTERS IN PAGE NUMBER- MINUS 3 MINUS ONE-HALF THE DIFFERENCE BETWEEN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- AND -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN CENTERED LINE-
  - GO TO STEP W
- STEP P IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS ON, OR IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON, GO TO STEP T
- STEP R MOVE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN ALTERNATE LINE- TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- AND GO TO STEP W
- STEP T IF -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN ALTERNATE LINE- IS LESS THAN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-, GO TO STEP R GO TO STEP W
- STEP U IF -BRAILLE LINE NÜMBER- IS NOT EQUAL TO -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-, GO TO STEP B
  - IF -MAGAZINE FÖRMAT NUMBERED ODD INDICATOR- IS ON AND IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP B
  - IF -MAGAZINE FORMAT NUMBERED EVEN INDICATOR- IS ON AND IF -BRAILLE PAGE NUMBER- IS COD, GO TO STEP B
  - SET -INSERT BRAILLE PAGE NUMBER INDICATOR- AND SET -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- EQUAL TO -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- MINUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED- MINUS 3 GO TO STEP H
- STEP W SET -NEW LINE INDICATOR-EXIT



END BRAILLE PAGE PASIS

IF -BRAILLE LINE NUMBER- 15 1: GO TO EXIL

MOVE LOCATION OF -END OF PAGE CODES - TO -LOCATION DE NEXT CODE TO BE ADDED TO OUTPUT-

EXECUTE -ADD TO GUIPUT DAIA-

EXECUTE -END OUTPUT RECORD-

SET -BRAILLE LINE NUMBER- EQUAL TO 1

INCREASE -BRAILLE PAGE NUMBER- BY 1 AND EXECUTE

-TRANSLATE BRAILLE PAGE NUMBER-

EXECUTE -SET BRAILLE PAGE LENGTH-EXIT

## INSERT RUNNING HEAD

SET -RUNNING HEAD SHIFT FACTOR- EQUAL TO ONE-HALF THE DIFFERENCE BETWEEN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE- AND -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-

IF -TEXTBOOK FORMAT INDICATOR- IS ON, GO TO STEP 8

IF -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-MINUS -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-MINUS -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED- MINUS 3 IS LESS THAN -RUNNING MEAD SHIFT FACTOR-, SET -RUNNING HEAD SHIFT FACTOR- EQUAL TO THE SMALLER AMOUNT

EXECUTE -MOVE RUNNING HEAD-

EXECUTE -INSERT BRAILLE PAGE NUMBER INTO BRAILLE LINE-GO TO STEP D

STEP B. IF -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-MINUS -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-MINUS -NUMBER OF BRAILLE CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- MINUS 3 IS LESS THAN -RUNNING HEAD SHIFT FACTOR-, SET -RUNNING, HEAD SHIFT FACTOR- EQUAL TO THE SMALLER AMOUNT

EXECUTE -MOVE RUNNING HEAD-

EXECUTE -INSERT INKPRIAT PAGE NUMBER INTO BRAILLE LINE-

STEP D RESET -INSERT RUNNING HEAD INDICATOR-

REPLACE -BRAILLE END CHARACTER- IN -BRAILLE LINE- WITH -END OF LINE CODE-

STORE-BRAILLE END CHARACTER- AFTER -END OF LINE CODE- IN -BRAILLE LINE-

MOVEL LOCATION OF FIRST CHARACTER OF -BRAILLE LINE- TO -LOCATION OF NEXT CODE TO BE ADDED TO OUTPUT-

EXECUTE -ADD TO OUTPUT DATA-

MOVE -BRAILLE END CHARACTER- TO FIRST BRAILLE CHARACTER OF -BRAILLE LINE-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- FQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -BRAILLE LINE-

INCREASE -BRAILLE LINE NUMBER- BY 1

MOVE ZERO TO:-NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

EXECUTE -SET BRAILLE LINE LENGTH-EXIT



CABH DAIRAUS BYCM

BEGINNING AT THE LEFT, MOVE TO -BRAILLE LINE- THE NUMBER OF BRAILLE SPACES SPECIFIED BY -RUNNING HEAD SHIFT FACTOR-

ADD BRAILLE CHARACTERS: FROM -RUNNING HEAD- AND END CHARACTER TO -BRAILLE LINE-

SET -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- FOUAL TO -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD- PLUS -RUNNING HEAD SHIFT FACTOR-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF END CHARACTER IN -BRAILLE LINE-

EXIT

## SET BRAILLE PAGE LENGTH

STORE -MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE- IN
-EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGEIF -INTERLINE FORMAT INDICATOR- IS OFF, GO TO EXIT
IF -BRAILLE PAGE NUMBER- IS EVEN, DECREASE -EFFECTIVE
MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE- BY I
EXIT

# TRANSLATE BRAILLE PAGE NUMBER

MOVE -CODE FOR NUMBER SIGN- TO FIRST BRAILLE CHARACTER OF -BRAILLE PAGE NUMBER TRANSLATED-

STORE 1 IN -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED-

BEGINNING WITH LEFTMOST SIGNIFICANT DIGIT OF -BRAILLE
PAGE NUMBER-, OR WITH LOW CROER DIGIT IF ALL ZEROS,
LOOK UP BRAILLE FOULVALENTS IN -TABLE OF BRAILLE
NUMBERS-, STORE EQUIVALENTS LEFT TO RIGHT IN -BRAILLE
PAGE NUMBER TRANSLATED-, AND INCREASE -NUMBER OF
BRAILLE CHARACTERS'IN BRAILLE PAGE NUMBER TRANSLATEDBY 1 FOR EACH EQUIVALENT STORED, UNTIL EQUIVALENT OF
LOW ORDER DIGIT HAS BEEN STORED

STORE -BRAILLE END CHARACTER- FOLLOWING LAST BRAILLE CHARACTER OF -BRAILLE PAGE NUMBER TRANSLATED-EXIT



INSERT INKPRIME PAGE LINE IF -BRAILLE PAGE YUMBER- IS NOT THE SAME AS -BRAILLE PAGE NUMBER REFERENCE FOR NEW INKPRINT PAGE-, GO TO STEP D IF -BRAILLE LINE NUMBER- IS 1, GO TO STEP D IF -BRAILLE LINE NUMBER- EQUALS -EFFECTIVE MAXIMUM NUMBER OF LIMES FOR BRAILLE PAGE-, GO TO STEP B MOVE -CODE FOR DOTS 3 AND 6- TO SUCCESSIVE POSITIONS IV -BRAILLE LINE- UNTIL LINE LENGTH EQUALS -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-STORE -BRAILLE END CHARACTER- AFTER LAST BRAILLE CHARACTER STORED IN -BRAILLE LINE-MOVE - MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-EXECUTE -INSERT INKPRINT PAGE NUMBER INTO BRAILLE LINE-EXECUTE -END BRAILLE LINE-GO TO STEP D. IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT STEP 8 RUNNING HEAD-MOVE -CODE FOR SPACE- TO FIRST BRAILLE CHARACTER OF -BRAILLE LINE-MOVE -BRAILLE END CHARACTER- TO SECOND BRAILLE CHARACTER OF -BRAILLE LINE-MOVE 1 TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

STEP D RESET -INSERT INKPRINT PAGE LINE INDICATOR-EXIT

CHARACTER IN -BRAILLE LINE-

INSERT BLANK LINE ABSOLUTE

IF -INSERT RUNNING HEAD INDICATOR- IS ON: EXECUTE -INSERT RUNNING HEAD-

IF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON, EXECUTE
-INSERT INKPPINT PAGE LINF-

MOVE -CODE FOR SPACE+ AND -BRAILLE END CHARACTER- TO FIRST TWO POSITIONS OF -BRAILLE LINE-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- FQUAL TO LOCATION OF SECOND BRAILLE

STORE 1 IN -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF SECOND BRAILLE CHARACTER OF -BRAILLE LINE-

EXECUTE -END BRAILLE LINE-EXIT

END BRAILLE WORD AND LINE \*

EXECUTE -ADD WORD TO BRAILLE LINEEXECUTE -END BRAILLE LINEEXIT



END BRAILLE PAGE COMPLETE EXECUTE - END BRATILLE WORD AND LINE-

IF -BRAILLE LINE NUMBER- IS 1, GO TO STEP J RESET -INSERT INKPRINT PAGE LINE INDICATOR-

TIF -TEXTBOOK FORMAT INDICATOR- IS ON: GO TO STEP D

IF -MAGAZINE FERMAT NUMBERED COD INDICATOR- IS ON, GO TO STEP D

IF -MAGAZINE FORMAT NUMBERED EVEN INDICATOR- IS ON, GO TO STEP H

EXECUTE -END BRAILLE PAGE BASIC-STEP B STORE I IN -BRAILLE LINE NUMBER-EXECUTE - SET BRAILLE LINE LENGTH-GO TO STEP J

IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP B STEP D STEP F IF -BRAILLE LINE NUMBER- IS 1, GO TO STEP J

EXECUTE -INSERT BLANK LINE ABSOLUTE-GO TO STEP F

STEP H IF -BRAILLE PAGE NUMBER- IS CDC, GC TO STEP B GO TO STEP F

STEP J EXIT

#### INDENT

EXECUTE -END BRAILLE WORD AND LINE-

IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT RUNNING HEAD-

IF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON, EXECUTE -INSERT INKPRINT PAGE LINE-

IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT RUNNING HEAD-

MOVE -INDENT FACTOR- TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

STORE -CODE FOR SPACE- IN NUMBER OF SUCCESSIVE POSITIONS OF -BRAILLE LINE- SPECIFIED BY -INDENT FACTOR-

STORE -BRAILLE END CHARACTER- AFTER LAST SPACE STOKED IN -BRAILLE LINE-

SET -LCCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION WHERE END CHARACTER IS STORED

RESET -NEW LINE INDICATOR-EXIT

### END OF PAGE TEST

IF -BRAILLE LINE NUMBER- PLUS -LINES REQUIRED BEFORE END OF PAGE- MINUS 1 IS GREATER THAN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-, EXECUTE -END BRAILLE PAGE CCMPLETE-

EXIT

STOPE BRAILLE LINE MOVE BRAILLE CHARACTERS AND END CHARACTER FROM -BRAILLE LINE- TU -STURED BRAILLE LINE-MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-MOVE -BRAILLE EIND CHARACTER- TO FIRST POSITION OF -BRAILLE LINE-SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER OF -BRAILLE LINE-IF FIRST BRAILLE CHARACTER OF -STURED BRAILLE LINE- IS -CODE FOR SPACE-, REPLACE WITH -CODE FOR SPECIAL SPACE-EXIT MOVE STORED BRAILLE LINE IF CHARACTER BEFORE END CHARACTER OF -STORED BRAILLE

IF CHARACTER BEFORE END CHARACTER OF -STORED BRAILLE
LINE- IS NOT -CODE FOR SPACE-, SHIFT END CHARACTER DNE
POSITION TO THE RIGHT, AND INSERT -CODE FOR SPACESAVE -LOCATION OF PRIMARY UNIT IN BRAILLE TABLE- IN
-BRAILLE TABLE LOCATION REFERENCESET, -LOCATION OF NEXT BRAILLE CHARACTER IN STORED BRAILLE
LINE- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER OF
-STORED BRAILLE LINESTEP B IF NEXT BRAILLE CHARACTER IN -STORED BRAILLE LINE- IS
-BRAILLE END CHARACTER OF STEP D.

-BRAILLE END CHARACTER-, GO TO STEP D.

MOVE NEXT BRAILLE CHARACTER IN -STORED BRAILLE LINE- TO
FIRST BRAILLE CHARACTER OF -DUMMY BRAILLE TABLE ENTRY-.

STORE -BRAILLE END CHARACTER- IN -DUMMY BRAILLE TABLE
ENTRY- AFTER BRAILLE CHARACTER MOVED FROM -STORED
BRAILLE LINE-

SET -LOCATION OF PRIMARY UNIT IN BRAILLE TABLE- EGUAL TO LOCATION OF -DUMMY BRAILLE TABLE ENTRY-INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN STORED BRAILLE LINE- BY LENGTH OF ONE BRAILLE CHARACTER EXECUTE -ADD TO BRAILLE WORD-

GO TO STEP B

STEP D MOVE -BRAILLE TABLE LOCATION REFERENCE- TO -LOCATION OF PRIMARY UNIT IN BRAILLE TABLE-

CENTER BRAILLE LINE

IF -CENTERING INDICATOR- IS UFF, GO TO STEP B

EXECUTE - END BRAILLE LINEGO TO STEP D

STEP B SET -CENTERING INDICATOR-EXECUTE -SET BRAILLE LINE LENGTH-EXECUTE -END BRAILLE LINE-RESET -CENTERING INDICATOR-EXECUTE -SET BRAILLE LINE LENGTH-

STEP D EXIT



GET FORMAT SYMBOL FACTOR

STORE ZERO IN -FORMAT SYMBOL FACTOR-

STEP B INCREASE -LOCATION OF LAST CHARACTER OF PRIMARY UNIT- BY LENGTH OF ONE CHARACTER

IF LAST CHARACTER OF PRIMARY UNIT IS SPACE, GO TO STEP D SHIFT CHARACTERS OF -FORMAT SYMBOL FACTOR- TO THE LEFT ONE DIGIT

MOVE LAST CHARACTER OF PRIMARY UNIT TO LOW ORDER DIGIT OF -FORMAT SYMBOL FACTOR-

GO TO STEP B

STEP D EXIT

# END COLUMN GROUP

EXECUTE -ADD WORD TO BRAILLE LINE-

IF LAST BRAILLE CHARACTER OF -BRAILLE LINE- BEFORE END CHARACTER IS SPACE, GO TO STEP B

REPLACE END CHARACTER OF -BRAILLE LINE- WITH -CODE FOR SPACE- AND PLACE -BRAILLE END CHARACTER- AFTER SPACE INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-BY 1

INCREASE -LCCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- BY BRAILLE CHARACTER LENGTH

STEP B REPLACE -CCDE FOR SPACE- BEFORE END CHARACTER IN -BRAILLE LINE- WITH -EFFECTIVE. COLUMN SIGNAL CODE-

SET - TEMPORARY COLUMN WIDTH- EQUAL TO -NUMBER OF ERAILLE CHARACTERS IN BRAILLE LINE- MINUS -PREVIOUS LINE LENGTH- MINUS 1

IF -TEMPORARY COLUMN WIDTH- IS GREATER THAN WIDTH FOR -COLUMN NUMBER- IN -TABLE OF COLUMN WIDTHS-, REPLACE TABLE AMOUNT WITH AMOUNT OF -TEMPORARY COLUMN WIDTH-EXIT

# BEGIN COLUMN SROUP

MOVE -NEXT COLUMN SIGNAL CODE- TO -EFFECTIVE COLUMN SIGNAL CODE-

MOVE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- TO -PREVIOUS LINE LENGTH-

INCREASE -COLUMN NUMBER- BY 1 EXIT

## STORE COLUMN LINE

MOVE -BRAILLE LINE- TO -COLUMN LINE-WRITE -COLUMN LINE- IN TEMPORARY FILE

MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

STORE -BRAILLE END CHARACTER- IN FIRST CHARACTER OF -BRAILLE LINE-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -BRAILLE LINE-

EXIT



INSERT SPACES BETWEEN COLUMNS

STEP B IF -COLUMN ADJUSTMENT FACTOR- IS LESS THAN 1, GO TO

DECREASE -COLUMN ADJUSTMENT FACTOR- BY 1

MOVE -CODE FOR SPACE- TO NEXT BRAILLE CHARACTER OF -BRAILLE WORD-

INCREASE -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE WORD- BY BRAILLE CHARACTER LENGTH

STORE -BRAILLE END CHARACTER- IN NEXT BRAILLE CHARACTER
OF -BRAILLE WORD-

INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY 1

GO TO STEP B

STEP D EXIT

以下,是是一种的工作的是一种,也是一种的工作的是一种的工作,也是是一种的工作的。

#### MOVE COLUMN GROUP

DEGREASE -LOCATION OF NEXT BRAILLE CHARACTER IN COLUMN LINE- BY BRAILLE CHARACTER LENGTH MULTIPLIED BY -TEMPORARY COLUMN WIDTH-

STEP B IF NEXT BRAILLE CHARACTER IN -COLUMN LINE- IS -COLUMN LEFT ALIGN SIGNAL CODE- OR -COLUMN RIGHT ALIGN SIGNAL . CODE-, GO TO STEP D

MOVE NEXT BRAILLE CHARACTER IN -COLUMN LINE- TO VEXT BRAILLE CHARACTER IN -BRAILLE WORD-

INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY 1

INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN COLUMN LINE- BY LENGTH OF ONE BRAILLE CHARACTER

INCREASE -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE WORD- BY LENGTH OF CNE BRAILLE CHARACTER GD TO STEP B

STEP D INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN COLUMN LINE- BY BRAILLE CHARACTER LENGTH

STORE -BRAILLE END CHARACTER- AFTER LAST BRAILLE CHARACTER STORED IN -BRAILLE WORD-EXIT

### RESET GENERAL FORMAT INDICATORS

RESET -MAGAZINE FORMAT NUMBERED EVEN INDICATOR-,
-MAGAZINE FORMAT NUMBERED ODD INDICATOR-, -LEAVE BLANK
AREA FOR BRAILLE PAGE NUMBER INDICATOR-, -TEXTBOOK
FORMAT INDICATOR- AND -INTERLINE FORMAT INDICATOREXIT

OPERATION 101 BEGIN LITERARY FORMAT

EXECUTE -RESET GENERAL FORMAT INDICATORS-EXECUTE -SET BRAILLE PAGE LENGTH-EXECUTE -SET BRAILLE LINE LENGTH-GO TO -MAIN PROGRAM- STEP 2



OPERATION 102 BEGIN TEXTROCK FORMAT

EXECUTE -RESET GENERAL FORMAT INDICATORS
SET -TEXTBOOK FORMAT INDICATOR
EXECUTE -SET BRAILLE PAGE LENGTH
EXECUTE -SET BRAILLE LINE LENGTH
GO TO -MAIN PROGRAM- STEP 2

DPERATION 103 BEGIN TEXTBOOK INTERLINE FORMAT

EXECUTE -RESET GENERAL FORMAT INDICATORS
SET -TEXTBOOK FORMAT INDICATOR
SET -INTERLINE FORMAT INDICATOR
EXECUTE -SET BRAILLE PAGE LENGTH
EXECUTE -SET BRAILLE LINE LENGTH
GO TO -MAIN PROGRAM- STEP 2

DPERATION 104 BEGIN MAGAZINE FORMAT NUMBERING ODD PAGES

EXECUTE -RESET GENERAL FORMAT INDICATORS
SET -MAGAZINE FORMAT NUMBERED ODD INDICATOR
EXECUTE -SET BRAILLE PAGE LENGTH
EXECUTE -SET BRAILLE LINE LENGTH
GO TO -MAIN PROGRAM- STEP 2

OPERATION 105 BEGIN MAGAZINE FORMAT NUMBERING EVEN PAGES
EXECUTE -RESET GENERAL FORMAT INDICATORSSET -MAGAZINE FORMAT NUMBERED EVEN INDICATOREXECUTE -SET BRAILLE PAGE LENGTHEXECUTE -SET BRAILLE LINE LENGTHGO TO -MAIN PROGRAM- STEP 2

OPERATION 109 SPECIFY PAGE LENGTH

EXECUTE -GET FORMAT SYMBOL FACTORSTORE -FORMAT SYMBOL FACTOR- IN -MAXIMUM NUMBER OF LINES
FOR BRAILLE PAGEEXECUTE -SET BRAILLE PAGE LENGTHEXECUTE -SET BRAILLE LINE LENGTH-

OPERATION 110 SPECIFY FULL LINE LENGTH

EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -MAXIMUM NUMBER OF

BRAILLE CHARACTERS IN FULL LINE
EXECUTE -SET BRAILLE LINE LENGTH
GO TO -MAIN PROGRAM- STEP 2

GO TO -MAIN PROGRAM- STEP 2

DPERATION 111 SPECIFY CENTERED LINE LENGTH

EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -MAXIMUM NUMBER OF

BRAILLE CHARACTERS IN CENTERED LINE
EXECUTE -SET BRAILLE LINE LENGTH
GO TO -MAIN PROGRAM- STEP 2



OPENATION 112 SPECIFY BRAILLE CARD NUMBER INCREMENT EXECUTE -SET FORMAT SYMBOL FACTOR-STORE -FORMAT SYMBOL FACTOR- IN -INCREMENT FOR BRAILLE CARD NUMBER-SO TO -MAIN PROGRAM- STEP 2

OPERATION 116 SPECIFY SOURCE NUMBER

EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -SOURCE NUMBERSU TO -MAIN PROGRAM- STEP 2

OPERATION 117 SPECIFY TITLE NUMBER

EXECUTE -SET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -TITLE NUMBERGO TO -MAIN PROGRAM- STEP 2

OPERATION 118 SPECIFY BRAILLE VOLUME NUMBER

EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -BRAILLE VOLUME NUMBERGO TO -MAIN PROGRAM- STEP 2

OPERATION 119 SPECIFY BRAILLE PAGE NUMBER

EXECUTE -GET FORMAT SYMBOL FACTOR
EXECUTE -END BRAILLE PAGE COMPLETE
STORE -FORMAT SYMBOL FACTOR- IN -BRAILLE PAGE NUMBER
EXECUTE -TRANSLATE BRAILLE PAGE NUMBER
EXECUTE -SET BRAILLE PAGE LENGTH
EXECUTE -SET BRAILLE LINE LENGTH
GD TO -MAIN PROGRAM- STEP 2

DPERATION 120 ADVANCE TO SPECIFIED BRAILLE LINE

EXECUTE -END BRAILLE WORD AND LINE
EXECUTE -GET FORMAT SYMBOL FACTOR-

STEP B IF -BRAILLE LINE NUMBER- EQUALS -FORMAT SYMBOL FACTOR-,
30 TO STEP D
EXECUTE -INSERT BLANK LINE ABSOLUTEGO TO STEP B

STEP D EXECUTE -END OUTPUT RECORD
EXECUTE -SET BRAILLE LINE LENGTHGO TO -MAIN PROGRAM- STEP 2

OPERATION 121 SPECIFY BRAILLE CARD NUMBER

EXECUTE -SET FORMAT SYMBOL FACTOR
STORF -FORMAT SYMBOL FACTOR- IN -BRAILLE CARD NUMBERGO TO -MAIN PROGRAM- STEP 2

DPERATION 124 END RUN

EXECUTE -END BRAILLE WORD AND LINEEXECUTE -END BRAILLE PAGE COMPLETECLOSE OUTPUT FILE
STOP



OPERATION 125 BEGIN NEW PARAGRAPH
MOVE 2 TO -INDENT FACTOREXECUTE -END BRAILLE WORD AND LINEEXECUTE -END OUTPUT RECORDEXECUTE -INDENTGO TO -MAIN PROGRAM- STEP 2

DPERATION 126 END LINE

EXECUTE -END BRAILLE WORD AND LINE
GD TO -MAIN PREGRAM- STEP 2

OPERATION 127 ADVANCE TO NEXT BRAILLE PAGE EXECUTE -END BRAILLE PAGE COMPLETE-GO TO -MAIN PROGRAM-STEP 2

OPERATION 128 ADVANCE TO NEXT COC-NUMBERED BRATLLE PAGE
EXECUTE -END BRAILLE PAGE COMPLETE
IF -BRAILLE PAGE NUMBER- IS ODD, GO TO STEP B
EXECUTE -INSERT BLANK LINE ABSOLUTEEXECUTE -END BRAILLE PAGE COMPLETE
STEP B GO TO -MAIN PROGRAM- STEP 2

OPERATION 129 SKIP A LINE

EXECUTE -EAD BRAILLE WORD AND LINEIF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON AND IF
-INSERT RUNNING HEAD INDICATOR- IS OFF, GO TO STEP H

IF -MAGAZINE FORMAT NUMBERED COD INDICATOR- OR -MAGAZINE FORMAT NUMBERED EVEN INDICATOR- IS ON, GO TO STEP F
IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP D

STEP B' EXECUTE -INSERT BLANK LINE ABSOLUTE-GO TO STEP H

STEP D IF -BRAILLE LINE NUMBER- IS 1, GC TO STEP H
IF -BRAILLE LINE NUMBER- IS EQUAL TO -EFFECTIVE MAXIMUM
NUMBER OF LINES FOR BRAILLE PAGE-, EXECUTE -INSERT
BLANK LINE ABSOLUTE-

GO TO STEP B

STEP F IF -BRAILLE LINE NUMBER- IS 1, GO TO STEP H
GO TO STEP B

STEP H GO TO -MAIN PREGRAM- STEP 2



IPERATION 130 BREAK

EXECUTE -ADD WORD TO BRAILLE LINE-

IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP F

IF -BRAILLE LINE NUMBER- IS LESS THAN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE- MINUS 1, GO TO STEP B

EXECUTE -STORE BRAILLE LINE-

EXECUTE -END BRAILLE PAGE COMPLETE-

EXECUTE - MOVE STORED BRAILLE LINE-

STEP B EXECUTE -END BRAILLE WORD AND LINE-

STEP D EXECUTE -INSERT BLANK LINE ABSOLUTE-GO TO STEP J

STEP F IF -BRAILLE LINE NUMBER- IS 1 LESS THAN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-, GO TO STEP H

GO TO STEP B

STEP H EXECUTE -END BRAILLE WORD AND LINE-EXECUTE -INSERT BLANK LINE ABSOLUTE-GO TO STEP D

STEP J GO TO -MAIN PROGRAM- STEP 2

30 TO OPERATION 129

OPERATION 132 BEGIN CHAPTER TITLE

EXECUTE -GET FORMAT SYMBOL FACTOR
ADD 4 TO -FORMAT SYMBOL FACTOR- AND STORE RESULT IN

-LINES REQUIRED BEFORE END OF PAGE-

STEP B EXECUTE -END BRAILLE WORD AND LINE-EXECUTE -END OF PAGE TEST-SET -CENTERING INDICATOR-EXECUTE -SET BRAILLE LINE LENGTH-

OPERATION 133 END CHAPTER TITLE

EXECUTE -END BRAILLE WORD AND LINERESET -CENTERING INDICATOREXECUTE -INSERT BLANK LINE ABSOLUTEGO TO -MAIN PROGRAM- STEP 2

DPERATION 134 BEGIN HEADING

EXECUTE -GET FORMAT SYMBOL FACTOR—

ADD 2 TO -FORMAT SYMBOL FACTOR— AND STORE RESULT IN

-LINES REQUIRED BEFORE END OF PAGE—

SO TO OPERATION 132 STEP B

DPERATION 135 END HEADING SO TO OPERATION 137

OPERATION 136 BEGIN CENTERING

EXECUTE -END BRAILLE WORD AND LINESET -CENTERING INDICATOREXECUTE -SET BRAILLE LINE LENGTHGO TO -MAIN PROGRAM- STEP 2



OPERATION 137 END CENTERING
EXECUTE -FIND BRAILLE WORD AND LINERESET -CENTERING INDICATEREXECUTE -SET BRAILLE LINE LENGTHGO TO -MAIN PROGRAM- STEP 2

OPERATION 138 BEGIN POETRY

EXECUTE -END BRAILLE WORD AND LINESET -INDEX FURMAT INDICATORSTORE 2 IN -INDEX AMOUNTGO TO -MAIN PROGRAM- STEP 2

UPERATION 140 END POETRY
SO TO OPERATION 143

OPERATION 141 INDENT THIS LINE

IF CHARACTER IN -TEXT- FOLLOWING LAST CHARACTER OF

PRIMARY UNIT IS NOT A NUMBER, GO TO -MAIN PROGRAM
STEP 4

EXECUTE -GET FORMAT SYMBOL FACTOR-STORE -FORMAT SYMBOL FACTOR- IN -INDENT FACTOR-EXECUTE -INDENT-GO TO -MAIN PROGRAM- STEP 2

OPERATION 142 BEGIN INDEX

EXECUTE -END BRAILLE WORD AND LINE
SET -INDEX FORMAT INDICATOR
EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -INCEX AMOUNT
GO TO -MAIN PROGRAM- STEP 2

OPERATION 143 END INDEX FORMAT

EXECUTE -END BRAILLE WORD AND LINERESET -INDEX FORMAT INDICATORGO TO -MAIN PROGRAM- STEP 2

OPERATION 144 DO NOT SEPARATE LINES AT END OF PAGE EXECUTE -END BRAILLE WORD AND LINE-EXECUTE -GET FORWAT SYMBOL FACTOR-

STEP B STORE -FORMAT SYMBOL FACTOR- IN -LINES REQUIRED BEFORE END OF PAGE-

IF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON, INCREASE -LINES REQUIRED BEFORE END OF PAGE- BY I

EXECUTE -END OF PAGE TEST-GO TO -MAIN PROGRAM- STEP 2

OPERATION 145 LETTER CLOSING EXECUTE -SET FORMAT S

EXECUTE -SET FORMAT SYMBOL FACTOR-EXECUTE -SOL GROW OF THE LINE-

IF -BRAILLE LINE NUMBER- PLUS -FORMAT SYMBOL FACTOR- IS GREATER THAN -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE-, GO TO STEP 8

EXECUTE -FND BRAILLE LINE-

GU TO STEP D

STEP B EXECUTE -STORE BRAILLE LINE-EXECUTE -END BRAILLE PAGE COMPLETE-EXECUTE -MOVE STORED BRAILLE LINE-EXECUTE -END BRAILLE WORD AND LINE-

STEP D GU TO -MAIN PROGRAM- STEP 2

OPERATION 148 ALIGN AT RIGHT MARGIN

SET -ALIGN RIGHT MARGIN INDICATOR-EXECUTE -ADD WORD TO BRAILLE LINE-

IF LAST CHARACTER BEFORE END CHARACTER IN -BRAILLE LINE-IS -CODE FOR SPACE-, GO TO STEP B

SHIFT END CHARACTER OF -BRAILLE LINE- ONE POSITION TO THE RIGHT AND INSERT -CODE FOR SPACE- BEFORE END CHARACTER INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY 1

STEP B REPLACE SPACE BEFORE END CHARACTER IN -BRAILLE LINE- WITH -RIGHT MARGIN SIGNAL CODE-

MOVE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

IF -INSERT BRAILLE PAGE NUMBER INDICATOR- IS DN, DECREASE -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY -NUMBER OF BRAILLE CHARACTERS IN BRAILLE PAGE NUMBER TRANSLATED- PLUS 3

IF -INSERT INKPRINT PAGE NUMBER INDICATOR- IS ON.

DECREASE -EFFECTIVE MAXIMUM NUMBER OF BRAILLE

CHARACTERS IN BRAILLE LINF- BY -NUMBER OF BRAILLE

CHARACTERS IN INKPRINT PAGE NUMBER TRANSLATED- PLUS 3

GO TO -MAIN PROGRAM- STEP 2

OPERATION 149 INSERT LEADER DOTS

SET -INSERT LEADER DOTS INDICATORGO TO -MAIN PROGRAM- STEP 2

DPERATION 150 BEGIN RUNNING HEAD

STORE -BRAILLE END CHARACTER- IN FIRST BRAILLE CHARACTER OF -RUNNING HEAD-

SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN RUNNING HEAD- EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -RUNNING HEAD-

MOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD-

SET -ADD TO RUNNING HEAD INDICATOR-GO TO -MAIN PROGRAM- STEP 2

OPERATION 151 END RUNNING HEAD
RESET -ADD TO RUNNING HEAD INDICATORIF LAST BRAILLE CHARACTER IN -RUNNING HEAD- BEFORE END
CHARACTER IS -CODE FOR SPACE-, SHIFT END CHARACTER ONE
POSITION TO THE LEFT IN -RUNNING HEAD- AND DECREASE
-NUMBER OF BRAILLE CHARACTERS IN RUNNING HEAD- BY 1
GD TO -MAIN PROGRAM- STEP 2

OPERATION 152 ASTERISK BREAK EXECUTE -ADD WORD TO BRAILLE LINE-IF -BRAILLE PAGE NUMBER- IS EVEN, GO TO STEP B IF -BRAILLE LINE NUMBER- IS NOT EQUAL TO -EFFECTIVE MAXIMUM NUMBER OF LINES FOR BRAILLE PAGE- GO TO STEP B EXECUTE -STORE BRAILLE LINE-EXECUTE -END BRAILLE PAGE COMPLETE-EXECUTE -MOVE STORED BRAILLE LINE-EXECUTE -END BRAILLE WORD AND LINE-STEP B IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT RUNNING HEAD-STORE -CODE FOR ASTERISK- SUCCESSIVELY IN FIRST EIGHT BRAILLE CHARACTERS OF -BRAILLE LINE-STORE - CODE FOR SPACE- IN 3 RD AND 6TH BRAILLE CHARACTERS OF -BRAILLE LINE-STORE -BRAILLE END CHARACTER- FOLLOWING LAST ASTERISK STORE 8 IN -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- EQUAL TO LOCATION OF 9TH BRAILLE CHARACTER IN -BRAILLE LINE-EXECUTE -CENTER BRAILLE LINE-GO TO -MAIN PROGRAM- STEP 2

OPERATION 153 INSERT CENTERED COLON LINE

EXECUTE -END BRAILLE WORD AND LINE
IF -BRAILLE LINE NUMBER- EQUALS 1, GC TC -MAIN PROGRAM
STEP 2

STORE -CODE FOR COLON- SUCCESSIVELY IN FIRST TWELVE

BRAILLE CHARACTERS OF -BRAILLE LINE
STGRE -BRAILLE END CHARACTER- FCLLCWING LAST COLON

MOVE 12 TC -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE
SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN

BRAILLE LINE- EQUAL TO LOCATION OF 13TH BRAILLE

CHARACTER OF -PRAILLE LINE
EXECUTE -CENTER BRAILLE LINE
GO TO -MAIN PROGRAM- STEP 2

OPERATION 156 BEGIN ALTERNATE RIGHT MARGIN

EXECUTE +GET FORMAT SYMBOL FACTOR+

STORE -FORMAT SYMBOL FACTOR+ IN -MAXIMUM NUMBER OF

BRAILLE CHARACTERS IN ALTERNATE LINE+

SET -ALTERNATE RIGHT MARGIN INDICATOR+

EXECUTE -SET BRAILLE LINE LENGTH+

GO TO -MAIN PROGRAM+ STEP 2



OPERATION 157 END ALTERNATE RIGHT MARGIN
RESET -ALTERNATE RIGHT MARGIN INDICATOREXECUTE -SET BRAILLE LINE LENGTHGD TO -MAIN PROGRAM--STEP 2

OPERATION 158 BEGIN GRAVE I TRANSLATION SET -GRADE I INDICATOR-GO TO -MAIN PROGRAM- STEP 2

DPERATION 159 END GRADE I TRANSLATION

RESET -GRADE I INDICATOR
MOVE -TYPE OF LAST UNIT BEFORE PRIMARY JNIT- TO RIGHT END

TYPE IN -BRAILLE TABLE- ENTRY FOR PRIMARY JNIT

GO TO -MAIN PROGRAM- STEP 2

OPERATION 160 BEGINNING OF NEW INKPRINT PAGE

SET -INSERT\_INKPRINT PAGE LINE INDICATORSET -ADD TO INKPRINT PAGE NUMBER INDICATOREXECUTE -END BRAILLE WORD AND LINEMOVE ZERO TO -NUMBER OF BRAILLE CHARACTERS IN INKPRINT
PAGE NUMBER TRANSLATEDSET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN
INKPRINT PAGE NUMBER TRANSLATED- EQUAL TO LOCATION OF
FIRST BRAILLE CHARACTER IN -INKPRINT PAGE NUMBER
TRANSLATEDMOVE -BRAILLE PAGE NUMBER- TO -BRAILLE PAGE NUMBER
REFERENCE FOR NEW INKPRINT PAGEGO TO -MAIN PROGRAM- STEP 2

OPERATION 161 BEGIN ONE LINE CHAPTER TITLE

STORE 5 IN -LINES REQUIRED BEFORE END OF PAGE—
GO TO OPERATION 132 STEP B

OPERATION 162 BEGIN ONE LINE HEADING
STORE 3 IN -LINES REQUIRED BEFORE END OF PAGE—
GO TO OPERATION 132 STEP B

GO TO -MAIN PROGRAM- STEP 2

DPERATION 164 LEAVE BLANK AREA FOR BRAILLE PAGE NUMBER
SET -LEAVE BLANK AREA FOR BRAILLE PAGE NUMBER INDICATORGO TO -MAIN PROGRAM- STEP 2

DPERATION 166 INSERT FULL LINE OF COLONS

EXECUTE -END BRAILLE WORD AND LINE
STORE -CODE FOR COLON- SUCCESSIVELY IN -BRAILLE LINE- THE

AMOUNT OF TIMES SPECIFIED BY - FECTIVE MAXIMUM NUMBER

OF BRAILLE CHARACTERS IN BRAILLE LINE
STORE -BRAILLE END CHARACTER- AFTER LAST COLON STORED

MOVE -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN

BRAILLE LINE- TO -NUMBER OF BRAILLE CHARACTERS IN

BRAILLE LINE
SET -LOCATION FOR STORING NEXT BRAILLE CHARACTER IN

BRAILLE LINE- EQUAL TO LOCATION OF END CHARACTER

EXECUTE -END BRAILLE LINE-

- 56 -

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OPERATION 167 INSERT CENTERD DOTS

EXECUTE -END BRAILLE WORD AND LINEEXECUTE -GET FORMAT SYMBOL FACTORIF -BRAILLE LINE NUMBER- IS 1, GO TO STEP F
DOUBLE -FORMAT SYMBOL FACTORDECREASE -FORMAT SYMBOL FACTOR- BY 1
GO TO STEP D

STEP 8 STORE -CCDE FCR SPACE- IN BRAILLE LINE INCREASING -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY I AND INCREASING -LCCATION FOR STORING NEXT BRAILLE CHARACTER IN BRAILLE LINE- BY BRAILLE CHARACTER LENGTH

STEP D STORE -CCDE FCR DCT 5- IN -BRAILLE LINE- INCREASING
-NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- BY 1
AND INCREASING -LOCATION FOR STORING NEXT BRAILLE
CHARACTER IN BRAILLE LINE- BY BRAILLE CHARACTER LENGTH
STORE -BRAILLE END CHARACTER- AFTER BCT
IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- IS LESS
THAN -FORMAT SYMBOL FACTOR-, GO TO STEP B

GO TO -MAIN PROGRAM- STEP 2

STEP F

DPERATION 168 ADVANCE TO SPECIFIED BRAILLE CELL NUMBER EXECUTE -GET FORMAT SYMBOL FACTOREXECUTE -ADD WORD TO BRAILLE LINEDECREASE -FORMAT SYMBOL FACTOR- BY 1

STEP B IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- IS NOT LESS THAN -FORMAT SYMBOL FACTOR-, GO TO STEP D MOVE -CODE FOR SPACE- TO NEXT BRAILLE CHARACTER IN -BRAILLE LINE-

STORE -BRAILLE END CHARACTER- AFTER SPACE INCREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

INCREASE -LOCATION FOR STORING NEXT ERAILLE CHARACTER IN BRAILLE LINE- BY LENGTH OF ONE BRAILLE CHARACTER GO TO STEP B

STEP D GO TO -MAIN PROGRAM- STEP 2

DPERATION 169 RESERVE BLOCK OF BLANK LINES

EXECUTE -END BRAILLE WORD AND LINE
EXECUTE -GET FORMAT SYMBOL FACTOR
STORE -FORMAT SYMBOL FACTOR- IN -LINES REQUIRED BEFORE

END OF PAGE-

IF -INSERT INKPRINT PAGE LINE INDICATOR- IS ON, INCREASE
-LINES REQUIRED BEFORE END OF PAGE- BY 1

EXECUTE -END OF PAGE TEST-

EXECUTE -INSERT BLANK LINE ABSOLUTE- THE NUMBER OF TIMES SPECIFIED BY -FORMAT SYMBOL FACTOR-

GO TO -MAIN PROGRAM- STEP 2



OPERATION 172 BEGIN COLUMN FORMAT

EXECUTE -FND BRAILLE WORD AND LINE-

STORE -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE- IN -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN NEXT LINE-

STORE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN FULL LINE-IN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

OPEN TEMPORARY FILE
CLEAR ALL WIDTHS IN TABLE OF COLUMN WIDTHST
SET TOOLUMN FIRST LINE INDICATORT
STORE ZERO IN TINDENT FACTORT
EXECUTE TINDENTT
SD TO THAIN PROGRAMS STEP 2

DPERATION 173 LEFT ALIGN IN COLUMN

MOVE -COLUMN LEFT ALIGN SIGNAL CODE- TO -NEXT COLUMN

SIGNAL CODEGD TO OPERATION 174 STEP B

OPERATION 174 RIGHT ALIGN IN COLUMN

MOVE -COLUMN RIGHT ALIGN SIGNAL CODE- TO -NEXT COLUMN

SIGNAL CODE-

STEP B EXECUTE -GET FORMAT SYMBOL FACTORIF -FORMAT SYMBOL FACTOR- IS 1; GO TO STEP D
EXECUTE -END COLUMN GROUPEXECUTE -BEGIN COLUMN GROUPGO TO STEP J

STEP D IF -COLUMN FIRST LINE INDICATOR- IS OFF, GO TO STEP H
RESET -COLUMN FIRST LINE INDICATOR-

STEP F STORE ZERO IN -COLUMN NUMBER-EXECUTE -BEGIN COLUMN GROUP-GO TO STEP J

STEP H EXECUTE -END COLUMN GROUP-EXECUTE -STORE COLUMN LINE-GO TO STEP F

STEP J GO TO "MAIN PROGRAM" STEP 2

OPERATION 175 FND COLUMN FURMAT

EXECUTE -END COLUMN GROUP-

EXECUTE -STORE COLUMN LINE-

CLOSE TEMPORARY FILE

STORE -MAXIMUM NUMBER OF BRAILLE CHARACTERS IN NEXT LINE-IN -EFFECTIVE MAXIMUM NUMBER OF BRAILLE CHARACTERS IN BRAILLE LINE-

RE-OPEN TEMPORARY FILE

STEP B IF ALL DATA HAS BEEN READ FROM TEMPORARY FILE: GO TO

GET -CCLUPN LINE- FROM TEMPORARY FILE

STORE 1 IN -CCLUPN NUMBER-

SET -LOCATION OF NEXT BRAILLE CHARACTER IN COLUMN LINE-EQUAL TO LOCATION OF FIRST BRAILLE CHARACTER IN -COLUMN LINE-

STEP D STORE ZERO IN -TEMPORARY COLUMN WIDTH-

STEP F IF NEXT BRAILLE CHARACTER IN -COLUMN LINE- IS -BRAILLE END CHARACTER-, GC TO STEP N

IF NEXT BRAILLE CHARACTER IN -COLUMN LINE- IS -COLUMN LEFT ALIGN SIGNAL CCDE-, RESET -CCLUMN RIGHT ALIGN INDICATOR- AND GC TC STEP H

IF NEXT BRAILLE CHARACTER IN -COLUMN LINE- IS -COLUMN RIGHT ALIGN SIGNAL CODE-, SET -COLUMN RIGHT ALIGN INDICATOR- AND GC TC STEP H

INCREASE - TEMPORARY COLUMN WIDTH - BY 1

INCREASE -LOCATION OF NEXT BRAILLE CHARACTER IN COLUMN LINE- BY BRAILLE CHARACTER LENGTH

GO TO STEP F

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STEP H SUBTRACT -TEMPORARY COLUMN WIDTH- FROM WIDTH FOR -COLUMN NUMBER- IN -TABLE OF COLUMN WIDTHS- AND STORE DIFFERENCE IN -COLUMN ADJUSTMENT FACTOR-INCREASE -COLUMN NUMBER- BY 1

IF -COLUMN RIGHT ALIGN INDICATOR- IS ON, GO TO STEP L EXECUTE -MOVE COLUMN GROUP-

EXECUTE -INSERT SPACES BETWEEN COLUMNS-

STEP J STORE 2 IN -CCLUMN ADJUSTMENT FACTOR-EXECUTE -INSERT SPACES BETWEEN COLUMNS-GO TO STEP D

STEP L EXECUTE -INSERT SPACES BETWEEN COLUMNS-EXECUTE -MOVE COLUMN GROUP-GO TO STEP J

STEP N . IF FIRST BRAILLE CHARACTER IN -BRAILLE WORD- IS -CODE FOR SPACE-, REPLACE THIS CHARACTER WITH -CODE FOR SPECIAL SPACE-

IF LAST BRAILLE CHARACTER IN -BRAILLE WORD- BEFORE END
 CHARACTER IS NOT -CODE FOR SPACE-; GO TO STEP P

SHIFT -BRAILLE END CHARACTER- IN -BRAILLE WORD- ONE POSITION TO THE LEFT

DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD-BY 1

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IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD- IS GREATER THAN 1, GC TC STEP N

STEP P IF THOUMBER OF BRAILLE CHARACTERS IN BRAILLE WORDH IS LESS THAN OR EQUAL TO HMAXIMUM NUMBER OF BRAILLE CHARACTERS IN FUEL LINEH, GO TO STEP R

SHIFT -BRAILLE END CHARACTER- IN BRAILLE WORD ONE POSITION TO THE LEFT

DECREASE -NUMBER OF BRAILLE CHARACTERS IN BRAILLE MORD-BY 1

GO TO STEP P

STEP R IF -NUMBER OF BRAILLE CHARACTERS IN BRAILLE WORD- IS LESS
THAN OR EQUAL TO -EFFECTIVE MAXIMUM NUMBER OF BRAILLE
CHARACTERS IN BRAILLE LINE-, GO TO STEP T
EXECUTE -INSERT BLANK LINE ABSOLUTEGO TO STEP R

STEP T IF -INSERT RUNNING HEAD INDICATOR- IS ON, EXECUTE -INSERT RUNNING HEAD+

EXECUTE -END BRAILLE WORD AND LINE
GO TO STEP 8

STEP V GU TO -MAIN PROGRAM- STEP 2

OPERATION 176 BEGIN THIS LINE AT LEFT MARGIN

STORE ZERO IN -INDENT FACTOR
EXECUTE -INDENT
GO TO -MAIN PROGRAM- STEP 2

STORE ZEROS IN ALL POSITIONS OF -OUTPUT DATA-EXIT

SET UP 4-BIT REPRESENTATION OF DECIMAL NUMBER

BEGINNING WITH LOW ORDER DIGIT LOOK UP DIGITS OF -DECIMAL NUMBER- IN -TABLE OF 8-BIT EQUIVALENTS- AND STORE VALUES SUCCESSIVELY IN -4-BIT DIGIT LIST- JSING TWO LIST POSITIONS FOR EACH DECIMAL DIGIT AND STORING FIRST THE LOW ORDER, 4 BITS FROM THE TABLE ENTRY AND THEN THE HIGH ORDER 4 BITS

EXIT

INSERT NUMBERS FOR BRAILLE CARD

MOVE - TITLE NUMBER- TO -DECIMAL NUMBER-

EXECUTE -SET UP 4-BIT REPRESENTATION OF DECIMAL NUMBER-MOVING LEFT TO RIGHT THROUGH -4-BIT DIGIT LIST- AND RIGHT TO LEFT THROUGH -CUTPUT DATA-, MOVE 4-BIT DIGITS FROM LIST TO LOW ORDER 4 BITS OF POSITIONS 33 TO 26 IN -OUTPUT DATA-

MOVE -BRAILLE VOLUME NUMBER- TO -DECIMAL NUMBER-EXECUTE -SET UP 4-BIT REPRESENTATION OF DECIMAL NUMBER-MOVING LEFT TO RIGHT THROUGH -4-BIT DIGIT LIST- AND RIGHT TO LEFT THROUGH -CUTPUT DATA-, MOVE 4-BIT DIGITS FROM LIST TO LOW ORDER 4 BITS OF POSITIONS 37 TO 34 IN -OUTPUT DATA-

MOVE -BRAILLE PAGE NUMBER- TO -DECIMAL NUMBER-EXECUTE -SET UP 4-BIT REFRESENTATION OF DECIMAL NUMBER-MOVING LEFT TO RIGHT THROUGH -4-BIT DIGIT LIST- AND RIGHT TO LEFT THROUGH -CUTPUT DATA-, MOVE 4-BIT DIGITS FROM LIST TO LOW ORDER 4 BITS OF POSITIONS 47 TO 38 IN -DUTPUT DATA-

MOVE -BRAILLE LINE NUMBER- TO -DECIMAL NUMBEREXECUTE -SET UP 4-BIT REPRESENTATION OF DECIMAL NUMBERMOVING LEFT TO RIGHT THROUGH -4-BIT DIGIT LIST- AND RIGHT
TO LEFT THROUGH -CUTPUT DATA-, MOVE 4-BIT DIGITS FROM
LIST TO LOW CRDER 4 BITS OF POSITIONS 53 TO 50 IN
-OUTPUT DATA-

MOVE -SCURCE NUMBER- TO -CECIMAL NUMBER-EXECUTE -SET UP 4-BIT REPRESENTATION OF DECIMAL NUMBER-MOVING LEFT TO RIGHT THROUGH -4-BIT DIGIT LIST- AND RIGHT TO LEFT THROUGH -CUTPUT DATA-, MOVE 4-BIT DIGITS FROM LIST TO LOW ORDER 4 BITS OF POSITIONS 61 TO 56 IN -OUTPUT DATA-

LOOK-UP DIGITS OF -BRAILLE CARD NUMBER- IN -TABLE OF 6-BIT EQUIVALENTS- AND STORE 6-BIT VALUES IN BITS 5-10 OF POSITIONS 1 TO 7 IN -OUTPUT DATA-

INCREASE -BRAILLE CARD NUMBER- BY -INCREMENT FOR BRAILLE CARD NUMBER-

LOOK UP DIGITS OF -BRAILLE CARD NUMBER- IN -TABLE OF 6-BIT EQUIVALENTS- AND STORE 6-BIT VALUES IN LOW ORDER 6 BITS OF POSITIONS 1 TO 7 IN -OUTPUT DATA-EXIT

ADD TO OUTPUT DATA

IF FIRST POSITION IN -OUTPUT DATA- IS CLEARED, GO TO STEP D

STEP B IF NEXT CODE TO BE ADDED TO OUTPUT IS -BRAILLE END UHARACTER-, SO TO STEP F

MOVE NEXT CODE TO BE ADDED TO OUTPUT TO HIGH DRDER 12 BITS OF NEXT POSITION IN OUTPUT DATA

INCREASE -LOCATION OF NEXT CODE TO BE ADDED TO OUTPUT- BY LENGTH OF ONE BRAILLE CHARACTER

INCREASE -LOCATION OF NEXT POSITION IN OUTPUT DATA- BY LENGTH OF ONE OUTPUT DATA POSITION

IF -LOCATION OF NEXT PUSITION IN OUTPUT DATA- IS LESS
THAN LOCATION OF 72ND POSITION IN -OUTPUT DATA-, GO TO SIEP B

EXECUTE -END OUTPUT RECORD
IF NEXT CODE TO BE ADDED TO OUTPUT IS -BRAILLE END

CHARACTER-, GO TÚ STEP F

STEP D EXECUTE -INSERT NUMBERS FOR BRAILLE CARD-MOVE LOCATION OF 8TH POSITION IN -OUTPUT DATA- TO -LOCATION OF NEXT POSITION IN OUTPUT DATA-GO TO STEP B

STEP F EXIT

## END OUTPUT RECORD

IF FIRST POSITION IN -OUTPUT DATA- IS CLEARED: GO TO EXIT MOVE -END OF CARD CODE- TO HIGH ORDER 12 BITS OF NEXT POSITION IN OUTPUT DATA EXECUTE -WRITE OUTPUT- EXIT

## WRITE OUTPUT

TRANSFER BRAILLE DATA FROM -OUTPUT DATA- TO OJTPUT RECORD WRITE DATA FROM OUTPUT RECORD TO OUTPUT FILE EXECUTE -CLEAR OUTPUT DATA- EXIT

## TABLES

## BRAILLE TABLE

THE BRAILLE TABLE CONTAINS ENTRIES FOR EACH INPUT CHARACTER OR CHARACTER SEQUENCE WHICH CAN BE TRANSLATED AS A UNIT. A TABLE ENTRY MAY HAVE SIX PARTS.

- 1. THE FIRST PART OF THE ENTRY CONTAINS ONE OR MORE INPUT TEXT CHARACTERS REPRESENTING AN INKPRINT CHARACTER, OR A SERIES OF INKPRINT CHARACTERS, OR A FORMAT CODE. THE CHARACTER OR CHARACTER SERIES IN THE ENTRY IS FOLLOWED BY A SPECIAL CHARACTER, NOT USED IN THE INPUT; WHICH HAS A GREATER LL TOAL VALUE THAN ANY INPUT CHARACTER. THE ENTRIES ARE STORED IN ASCENDING ORDER. IN THE CASE OF TWO ENTRIES BEGINNING WITH THE SAME CHARACTERS, THE SPECIAL CHARACTER CAUSES THE SHORTER ENTRY TO HAVE A HIGHER VALUE AND THEREFORE TO BE PRECEDED BY THE LONGER ENTRY. IN THE LISTING GIVEN BELOW, THE SPECIAL CHARACTER IS REPRESENTED BY A MINUS SIGN.
- 2. THE SECOND PART OF THE ENTRY IS A NUMBER INDICATING THE TYPE OF THE TRANSLATION UNIT VIEWED FROM THE LEFT.
- 3. NEXT THERE IS AN OPERATION NUMBER IDENTIFYING THE PROCEDURE REQUIRED TO TRANSLATE THE UNIT.
- 4. THE FOURTH PART OF THE BRAILLE TABLE ENTRY IS A NUMBER INDICATING THE TYPE OF THE TRANSLATION UNIT VIEWED FROM THE RIGHT. THE NUMBERS IN PARTS 2 AND 4 SIGNIFY
  - TYPE 1 LETTER
  - TYPE 2 BEGINNING PUNCTUATION
  - TYPE 3 ENDING PUNCTUATION
  - TYPE 4 COMPOSITION SIGN
  - TYPE 5 HYPHEN
  - TYPE 6 SPACE
  - TYPE 7 DASH
  - TYPE 8 APUSTROPHE
  - TYPE 10 BY INTO TO
  - TYPE 11 NUMBER
- THE ENTRY. THIS NUMBER CORRESPONDS TO A SECTION OF THE EXCEPTION TABLE.
  - 6. THE SIXTH PART OF THE ENTRY CONTAINS THE CODES FOR THE



BRAILLE EQUIVALENT OF THE INKPRINT CHARACTERS. AM ENDING CODE OF ALL ZEROS TERMINATES, THIS PART OF THE ENTRY.

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                               00131 00011 06047 00033 00000
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REJOICE-
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· 文本的語言之意的思考的意义的意義情報 養養情報 等着 編集 整理的 经存货的 人名英格兰

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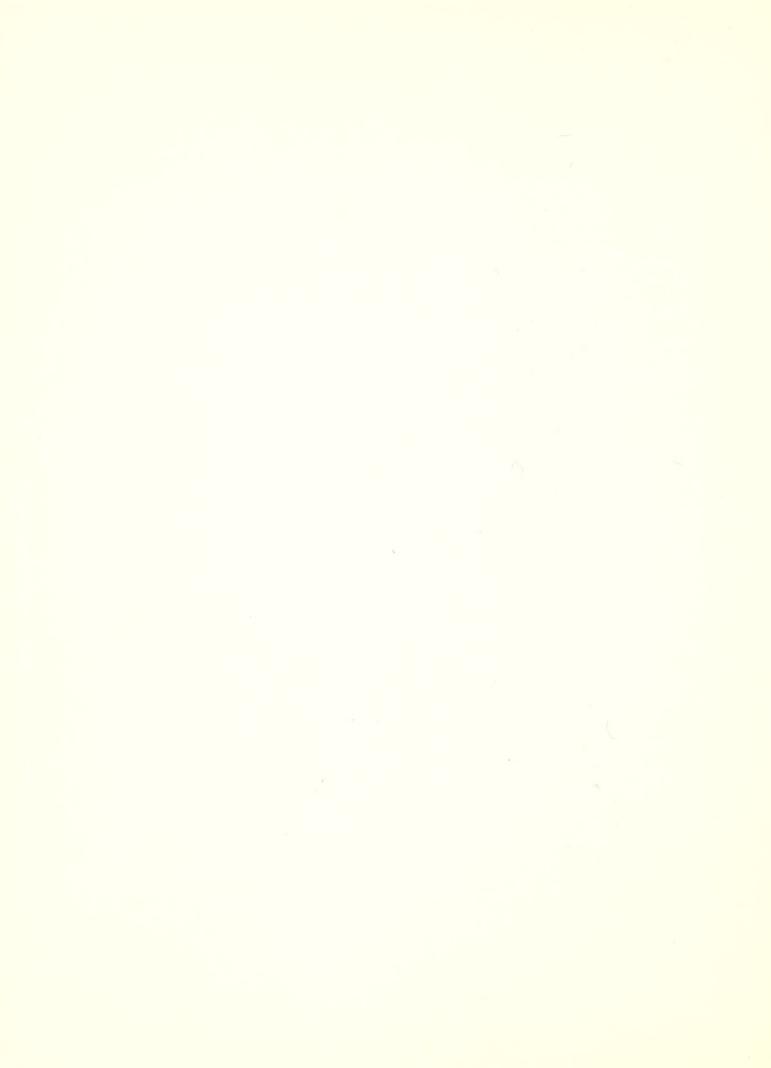
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ş ---
              03
                   18
                      03
                           00
                                04102 00000
              11
                   00 11
                           0.0
                                12102 00000
%-
              02
                   00
                     -02
                           00
                                06066 00000
```

## TABLE OF ONE CHARACTER LOCATIONS IN BRAILLE TABLE

```
C
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR O-
          LOCATION OF FIRST BRAILLE TABLE ENTRY
1
                                                 FOR 1-
2
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR
                                                      3 ~~
          LOCATION OF FIRST BRAILLE TABLE ENTRY
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR 6-
6
7
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR 7-
8
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR 8-
9
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR 9-
#!
15
          LOCATION OF BRAILLE TABLE ENTRY FOR #-
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR a-
9
          LOCATION OF
3
                      BRAILLE TABLE ENTRY FOR &-
A
          LOCATION OF BRAILLE TABLE ENTRY FOR A-
В
          LOCATION OF BRAILLE TABLE ENTRY FOR 8-
C
          LOCATION OF BRAILLE TABLE ENTRY FOR C-
D
          LOCATION OF BRAILLE TABLE ENTRY FOR C-
E
          LOCATION OF
                      BRAILLE TABLE ENTRY FOR
F
          LOCATION OF BRAILLE TABLE ENTRY FOR F-
G
          LOCATION OF BRAILLE TABLE ENTRY FOR G-
H
          LOCATION OF BRAILLE TABLE ENTRY FOR H-
I
          LOCATION OF BRAILLE TABLE ENTRY FOR I-
          LOCATION OF BRAILLE TABLE ENTRY FOR .-
LOCATION OF BRAILLE TABLE ENTRY FOR II-
J
          LOCATION OF BRAILLE TABLE ENTRY FOR J-
K
          LOCATION OF BRAILLE TABLE ENTRY FOR K-
L
          LOCATION OF BRAILLE TABLE ENTRY FOR L-
          LOCATION OF BRAILLE TABLE ENTRY FOR M-
M
N
          LOCATION OF
                      BRAILLE TABLE ENTRY FOR N-
0
          LOCATION OF BRAILLE TABLE ENTRY FOR O-
P
          LOCATION OF BRAILLE TABLE ENTRY FOR P-
          LOCATION OF BRAILLE TABLE ENTRY FOR Q-
R
          LOCATION OF BRAILLE TABLE ENTRY FOR R-
          LOCATION OF BRAILLE TABLE ENTRY FOR $-
X.C
          LOCATION OF BRAILLE TABLE ENTRY FOR #-
BLANK
          LOCATION OF BRAILLE TABLE ENTRY FOR SPACE
1
          LOCATION OF FIRST BRAILLE TABLE ENTRY FOR /-
S
          LOCATION OF BRAILLE TABLE ENTRY FOR S-
```

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T	LOCATION	CF	BRAILLE	TABLE	ENTRY	FOR T-
U	LOCATION	LF	BRAILLE	TABLE	ENTRY	FOR J-
V	LOCATION	Ot	BRAILLE	TABLE	ENTRY	FOR V-
W	LOCATION	OF	BRAILLE	TABLE	ENTRY	FOR W-
X	LOCATION	CF	BRAILLE	TABLE	ENTRY	FOR X-
Y	LUCATION	UF	BRAILLE	TABLE	ENTRY	FOR Y-
Z	LOCATION	ÜF	BRAILLE	TABLE	ENTRY	FOR Z-
· ·	LOCATION	OF	FIRST BE	RAILLE	TABLE	ENTRY FOR
8	LOCATION	OF	BRATTLE	TABLE	ENTRY	FOR %-

## EXCEPTION TABLE

THE EXCEPTION TABLE GOVERNS THE TRANSLATION OF CONTRACTION SEQUENCES IN UNUSUAL SITUATIONS. A CONTRACTION SEQUENCE IS DEFINED AS A LETTER SERIES WHICH IN BRAILLE SOMETIMES IS REPRESENTED BY A CONTRACTION. THE EXCEPTION TABLE IS DIVIDED INTO SECTIONS CORRESPONDING TO THE VARIOUS CONTRACTION SEQUENCES.

AN EXCEPTION TABLE ENTRY IS ESSENTIALLY A CONTEXT OF CHARACTERS WHICH AFFECTS CONTRACTION USAGE. A SECTION OF THE TABLE MAY HAVE TWO SUBSECTIONS. ONE SUBSECTION, CALLED THE PRECEDING CHARACTERS SUBSECTION, HAS ENTRIES CONTAINING CHARACTERS WHICH PRECEDE THE CONTRACTION SEQUENCE IN THE TEXT, OR WHICH PRECEDE AND FOLLOW THE CONTRACTION SEQUENCE IN THE TEXT. THE OTHER SUBSECTION, CALLED THE SUCCEEDING CHARACTERS SUBSECTION, HAS ENTRIES CONTAINING ONLY CHARACTERS WHICH FOLLOW THE CONTRACTION SEQUENCE IN THE TEXT.

- A TABLE ENTRY IN A PRECEDING CHARACTERS SUBSECTION HAS FOUR PARTS.
- 1. A PLUS OR MINUS SIGN CHARACTER INDICATES THAT THE CONTRACTION IS TO BE USED OR NOT TO BE USED IN THIS CONTEXT.
- 2. AN ENTRY LENSTH FACTOR POINTS TO THE BEGINNING OF THE NEXT TABLE ENTRY.
- 3. ONE OR MORE CHARACTERS OF CONTEXT TO THE LEFT OF THE CONTRACTION SEQUENCE ARE GIVEN. THE ORDER IS THE REVERSE OF THAT IN THE INPUT IF MORE THAN ONE CHARACTER IS GIVEN, SO THAT THE CHARACTER CLOSEST TO THE CONTRACTION SEQUENCE OCCURS FIRST IN THE ENTRY. THIS PART OF THE ENTRY IS TERMINATED BY AN END MARK WHICH IS A SPECIAL CHARACTER, NOT USED IN THE INPUT, HAVING A GREATER LOGICAL VALUE THAN ANY INPUT CHARACTER.
- 4. CHARACTERS WHICH FOLLOW THE CONTRACTION SEQUENCE AND WHICH FORM PART OF THE CONTEXT ARE GIVEN NEXT. THIS PART OF THE ENTRY IS ALSO TERMINATED BY THE SPECIAL ENDING CHARACTER. IF THE ENTRY INCLUDES NO FOLLOWING CHARACTERS, THE END MARK IS STILL REQUIRED AND OCCURS IMMEDIATELY AFTER THE END MARK FOR PART 3.

IN A SUCCEEDING CHARACTERS SUBSECTION OF THE EXCEPTION TABLE, EACH ENTRY HAS THREE PARTS.



- 1. A PLUS OR MINUS SIGN CHARACTER INDICATES THAT THE CONTRACTION IS TO BE USED OR NOT TO BE USED IN THIS CONTEXT.
- 2. AN ENTRY LENGTH FACTOR POINTS TO THE BEGINNING OF THE NEXT TABLE ENTRY.
- 3. ONE OR MORE CHARACTERS OF CONTEXT TO THE RIGHT OF THE CONTRACTION SEQUENCE ARE GIVEN. THIS PART OF THE ENTRY IS TERMINATED BY THE SPECIAL CHARACTER WHICH IS USED AS AN END MARK.

ENTRIES WITHIN EACH SUBSECTION ARE ARRANGED IN ASCENDING ORDER BY THE STRING OF CONTEXT CHARACTERS AND END MARK CHARACTERS. THE END OF A SUBSECTION IS INDICATED BY A SPECIAL ENTRY CONTAINING NO CONTEXT CHARACTERS AND HAVING AN ENTRY LENGTH FACTOR OF ZERO.

IN THE LISTING WHICH FOLLOWS: THE END MARK FOR A GROUP OF CONTEXT CHARACTERS IS REPRESENTED BY A MINUS SIGN.

THE SIGNIFICANCE OF THE TABLE MAY BE ILLUSTRATED BY A FEW EXAMPLES. THE ENTRY, MOSINCA--, IN THE PRECEDING CHARACTERS SUBSECTION FOR THE CENTRACTION, EVER, CONTROLS THE TRANSLATION OF EVER IN THE SEQUENCE, ACHIEVER. THE ENTRY BEGINS WITH A MINUS INDICATING THAT THE EVER CONTRACTION IS NOT USED. IN THE PRECEDING CHARACTERS SUBSECTION FOR THE ENTRY, MI2ROHS+ORN-, INDICATES THAT TH IS NOT CONTRACTED IN SHORTHORN. THE ENTRY, MC6ST-, IN THE SUCCEEDING CHARACTERS SUBSECTION FOR THE CONTRACTION, BE, MEANS THAT WHEN THIS CONTRACTION SEQUENCE IS FOLLOWED BY THE LETTERS, ST, AS IN BEST, BE IS NOT CONTRACTED. A PLUS ENTRY, PC7STR-, IN THE SAME SUBSECTION INDICATES THAT IN SUCH WORDS AS BESTREW AND BESTRIDE THE BE IS CONTRACTED.

AROLT

SUCCEEDING CHARACTERS SUBSECTION MOSE- POO

ABO VE

SUCCEEDING CHARACTERS SUBSECTION MOSSAID- POO

ACROSS

PRECEDING CHARACTERS SUBSECTION MO7L-E- POO

AFTER

PRECEDING CHARACTERS SUBSECTION MOGR-- POO

SUCCEEDING CHARACTERS SUBSECTION
MOSCLAIM- MOTEFF- MOSIMAG- MOS; - POO

AGAIN

PRECEDING CHARACTERS SUBSECTION MOON-- POO



SUCCEEDING CHARACTERS SUBSECTION MOSE- PIO

ALLY

PRECEDING CHARACTERS SUBSECTION
MO7HS-- MOSITS-- PO7PI-- MO6P-- MO8UQS-- 807.5-- PO0

ALMOST

PRECEDING CHARACTERS SUBSECTION MO8:54-- POO

AVCE

PRECEDING CHARACTERS SUBSECTION
MO7HS-- PO9IFED-- PO8IFF-- MO7IF-- MO8IT\$-- MO7,5-- PO0

AND

PRECEDING CHARACTERS SUBSECTION
MO7A\$-- M13P-EMONISM- M09V-YKE- P00

ΔR

PRECEDING CHARACTERS SUBSECTION
MO7AS-- M12HAM-AJAH- M10P-ROCO- M09RFNI-- M09RTLU-- .
M11RTNI-EG- M10TS-EEK- POO
SUCCEEDING CHARACTERS SUBSECTION
M08IGHT- M10UNNING- POO

2.4

PRECEDING CHARACTERS SUBSECTION M07,5-- P00

ATION

PRECEDING CHARACTERS SUBSECTION M07.5-- P00

BB

PRECEDING CHARACTERS SUBSECTION
MILMUD-ELL- MIZURCS-IRD- MIBURCS-DARD- MOTUS-- POO
SUCCEEDING CHARACTERS SUBSECTION
MOTAND- MOGLE- POO

BE

PRECEDING CHARACTERS SUBSECTION
M148ASESOOM-C+ POO

SUCCEEDING CHARACTERS SUBSECTION

PO7ATA- PO8ATIF- PO8ATIT- PO7ATR- MOSA- MO7CCA- MO6CHMO6CK- MO6CQ- PO6DA- PO8DECK- PO7DEV- PO7DEW- MO6DEMO9DIVER- PO6DI- PO7DU3- PO9DRAGG- MO5D- PO8ELZE- MO5EPO6GA- PO6GE- PO6GI- PO6GE- PO6GR- PO6GU- MO5G- MO6HMMO6HM- MO6GR- MO7HSH- PO7ING- PO8INS, - MO5I- MO7KERMO8KKUS- MO7LAF- MO8LAIR- PO6LA- PO6LE- PO6LI- PO6LDPO9LSAEN- PO8LUGA- PO6LY- MO5L- MO6MB- MO8MMEL- PO6NAP11NEFICEN- PO9NESAS- PO7NEV- MO9NISON- PO6NI- PO6NOPO6NU- MO5N- PO6PA- PO6PE- PO6PI- PO8PJFF- MO5P- PO6RAMO7REK- MIORELSON- MO7REN- MO7RES- MO9RETON- PO6RE-



PORTIBB- PORTING- MOSR- MOSKARD- MOGSS- POTSTA- POSSTEAD-MC8STIA- MIISTIFICA- PC7STI- MO8STCR- PO7STO- PO7STR-POSSIUDO- MOGSI- POGTA- POTTEL- PIOTHESDA- MOTTHE- POTTEI-PC71HJ- PC6TC- PC6TC- PC6TR- PC6TW- MOST- MOSU-PIZVILACORA- MOSY- MOGNT- MOGNA- MOGNEY- MOSY- MOGNANTS-BETWEEN SUCCEEDING CHARACTERS SUBSECTION M05E- P00 BLE PRECEDING CHARACTERS SUBSECTION MICA-GATE- MOTNU-- MIQUEH-IN- POPUS-TT- MOBUS-T- MIQUS-VEL-SUCCEEDING CHARACTERS SUBSECTION MOGAU- MOGED- MOSMISH- MOGND- MOGSS- POO SUCCEEDING CHARACTERS SUBSECTION MOSA- MOSE- MOSHEIM- MOSI- MOSSPIN- POO PRECEDING CHARACTERS SUBSECTION M12 DNA Y8-- M07,5-- P00 SUCCEEDING CHARACTERS SUBSECTION MORANO - MOBARE - MOBBUT - MOBFOR - MOPERUM - MOTHE -MC71F - MC71N - MC91NTC - MO71S - MO7CF - MO7ON - MO7UR -MOSSHE - MOSTHEY - MOSTIC - MOSWHEN- MIOWHILE - MOSWITH-CAN SUCCEEDING CHARACTERS SUBSECTION MO75.L- PO75.S- MO85.TC- PO75.T- MO65.- PO0 SUCCEEDING CHARACTERS SUBSECTION M05H- P00 CH PRECEDING CHARACTERS SUBSECTION M1300HCS-NIE- M080-EN- M13S-COCHNIE- P00 CHILD SUCCEEDING CHARACTERS SUBSECTION P07\$,S- M06\$,- P00 COM PRECEDING CHARACTERS SUBSECTION

MC7#a-- MO6a-- POO



VCC

SUCCEEDING CHARACTERS SUBSECTION

MOSE- MOGAN- MOGAT- POTCHA- POTCHE- POTCHI- POTCHIPOTCHU- MOGCH- POGEL- POTEST- MOSE- POGIC- MOSIDIUMPOTCHU- MOGCH- POGEL- MOSI- MOSE- MOTNED- POSNINGTMOSNING- MOGN - NOTOID- MOGS,- MOS - POGSA- POGSC- POGSFPOGSI- POGSO- POGSP- POGST- POGSU- MOSS- MOGT.- MOGNING-

DAY

PRECEDING CHARACTERS SUBSECTION
MO9AHW-A- MO9DUW-A- POO
SUCCEEDING CHARACTERS SUBSECTION
MO6AK- MO6AN- POO

DD

PRECEDING CHARACTERS SUBSECTION

MOBAEH-- MO9IM-AY- M12OG-AUGHT- M12ROON-ORP- POO
SUCCEEDING CHARACTERS SUBSECTION

MO7AMN- POO

DIS

SUCCEEDING CHARACTERS SUBSECTION

M052- P06CA- P06CE- P06CI- P06CL- P06CO- P06CRP06CU- M05C- P06HA- P09HEART- P06HO- M05H- P07ING- M05KM09PIRIT- M05\$- M05 - M08ULPH- P00

EA

PRECEDING CHARACTERS SUBSECTION MOBAR-N- MOTAS-- MOGA-- MIICUED-CE- MI4DAERPS-GLE-P11DI-LOGI- M10D-CTIV- M12FEEB-TER- M12GNARO-DE-M12HTOM-TEN- MO9HT-ST- M11KAEPS-S- PO9LC-GE- P11LEM-GER-P13LO-GINOUS- MOSL-GE- MIOMIL-DE- MIINAM-TER- MI3NELG-GLES-POSNUJ-U- MOTNU-- POSRA-N- PIORA-WAY- PIIRB-DMAM- POSRC-NT-MIGRENTE-LLY- MIGREVO-G- MIGREVO-T- POTRE-- POERG-N-POGRG-VE- POGRO-N- PIORPIL-D- POGRPS-- POGRP-CH- PIORP-GER-PIZZP-KNESS- MOTRP-- POSRT-C- PIZZT-DMILL- PIZZJCIPE-N-PITRYPME-N- PORR-CH- MIOR-DAPT- PIOR-DDDY- MORR-DD-MO8R-DJ- MO8R-DM- PO7R-D- PO8R-GA- PO7R-K- MIDR-LIGN-MO9R-LIN- MO9R-LLY- PO7R-L- PO7R-M- PO8R-NS- MO8R-PP-POTR-P- MIIR-SCEND- MORR-SS- POTR-S- MIDR-TION- MIOR-TTAC-POTR-T- POTR-U- POTR-V- POTR-Y- MOGR-- MISSOPSID-LL-MI3STRAEH-SE- MO9SU-GE- PO9S-WAY- MIITNA-TER- PIOT-ROOM-MIIXAT-TER- PO9Y-GER- PO0 SUCCEEDING CHARACTERS SUBSECTION

MIOBILITY- MO7BLE- MO7BLY- MO7CRE- MO7LLY- MO8LOGIMO8LOGY- MO7NCE- MO6ND- MO8PPLE- MO5R- MO8TION- MO7AAYMO5X- PO0

ED

PRECEDING CHARACTERS SUBSECTION

POBAHA-- PIOANNEH-- POBARAC-- MOTA\$-- MOGA-- PI4CAL-AEMONI
PI3CETNA-ANT- PIOCREC-A- M12CUAS-ISH- POBC-AR- POTC-U
POTD-- MOTD-U- MOSED-EE- M11ENK-EEP- PIOEPS-OM- MOTE-O-



66-- PCBHCS-- POTH-CNI- POTH- - FOTIP-OG- POTIRE-A-2KS-ADULE- PO7K- - MIDLGGI-Y- MIBLTIAB-ORE- PO7L-A-7L- - MIIMOC-DWN- PO6K-- PO9NAH-A- PI2NAESAC-A-3NEB-ICITE- MIZNIP-REPS- POTA- - MLICS-TMAN- MOTO-E-70-I- FOSPEC-A- PIIPRCT-CM- POSP-AGC- POSP-AN- PIOP-ITIO-IP-UNCLE- PICRACS-A- FIZRAD-EVIL- PORRA-O- PORRB-E-9RB-ON- PORRC-C- PORRC-U- PIZREVO-UCA- PIORFLA-Oere-A- POSRE-ER- PIIRE-CNIA- POSRG-CS- MIIRIA-ALE-3RIELGIF-O- M12KIK-RAKK- FOBRI-E- POBRO-A- P12RP#-MORE-SRPED-- PIIRP-ATCR- PI4RP-ECESSOR- PIIRP-ICAT- MO7RP--IRRI-ENT- POSRRUC-- POSR-AL- MOTR-A- POSR-EN- POSR-ER-SR-EST- POSR-EYE- MOTR-E- MOBR-ID- MOBR-IR- MOBR-IS-CR-ITCH- MIIR-IVERT- MODR-IVI- POTR-.- PIOR-OLEN-CR-UNDO- MC7R-O- MO9R-RAW- MIOR-RESS- MO9R-REW- PO7R- -7R-L- POSEN-A- MIISCN-IVE- MIISCR-ALE- MIOSROH-R-SS-EAL- PC9S-AKA- P08S-AN- P11S-ATIVE- P07S- - P08S-UL-DINA-AT- MC9TNA-I- PO7T-.- PO7T- - M12VARG-IGG-VOD-ALE- PIZVON-ADES- MIOV-WELL- POSV-ADO- POSV-AS- POO SUCCEEDING CHARACTERS SUBSECTION DAL- POGAM- MOSANCER- MOSA- MOSEP- POGEN- MOSICI-BITIO- POSIT- MOSOM- MOTOOM- MOTOWN- MOSREAM-BRESS- MOTROP- MOTRUM- POSUARD- POTUCA- MOSJ- POO

PRECEDING CHARACTERS SUBSECTION

V2-2- POPARAP-- MOTAS-- MOGA-- PI3DBYLOM-UM- MOGD-AT
OD-OM- MOGD-OT- POPD-UDA- MOTD-U- POGE-- POGH-
KIPS-ARD- MI2LGNI-CCK- MI3LTTIL-ECK- MIOLTTOB-
MHCS-DRICK- PI4CIB-GINEER- POGORT-- PI4CTOHP-GRAV- MOGO-
ROF-OON- MOGRP-A- MOGRP-U- POGR-AL- MOGR-AM- MOGR-ASC-
V2-EGE- MOGR-EGI- MOGR-EGC- MI2R-ETTING- MOGR-EW-
LZITIC-ESS- POO

SUCCEEDING SHAPACTERS SUBSECTION

SUCCEEDING CHARACTERS SUBSECTION

CELAI- MOTAIL- POBAMEL- MOTAME- MOTECK- MOTESS- MOTOCH
CORM- MOBORTH- MOBOUNC- MOBUMER- MOBUNCI- POO

PRECEDING CHARACTERS SUBSECTION

CHS-- MOBITS-- MOBMEK-- MILMELC-AU- MIBORTCELE-P
ISEM-PHALEN- MO7, S-- POO

PRECEDING CHARACTERS SUBSECTION

|AL-TES- MC7AS-- M06A-- M12CIV-EGAL- M10CIV-EI- M10CIV-OY|DRAG-08E- M13D-ACINATE- M09D-AIL- M09D-ANG- M08D-ID|DRAG-08E- M13D-IVATION- M08D-IV- M12FIWDIM-Y- M10GAMI-Y|GAIS-0AD- M11GAVAS-Y+ M11GDEH-OW- P14GINNIM-ODE|GAIS-0AD- M11GAVAS-Y+ M11GDEH-OW- P14GINNIM-ODE|GAE-0CK- P06H-- M11KAW-IFE- P10LCS-OT- M10LFIR-Y-.
|LGAE-0CK- P11MA-ASIA- M10MOH-UN- M12NI-ASABL|VU-ASABL- P080C-C- M08CD-R- P07OD-- M10OG-ING- P07OG-|VU-ASABL- P080C-C- M08CD-R- M10RP-BIB|VU-ASABL- P08P-AD- P09P-OSI- M11RAPS-IB|VU-ASABL- P08P-AD- M10RP-AIL- M08RP-E- M08RP-O- M10R-AISE|VU-ASABL- M09R-EAD- M09R-OLL- M09R-OUT- M08R-UN- P10SORD-A-



P12SURP-PIN- MORSUR-- MORSRCH-- MORT-CUM- P06T-- P07J-A-POGV-- MILYE-ANGE- POO SUCCEEDING CHARACTERS SUBSECTION MOGAD- MOTASE- MOTASI- MOTASMUS- MOTASU- POSECHY- MOTECT-MO70DE- MO70DI- MIIOGAIORY- PILOGENOUS- MO70GE- PO90ICAL-MOSDICA- MO700M- MO70UI- POSOSIS- PO90SITY- MO70SI-MO70TO- MIOSHRSHR- MO7UPT- POO EVER PRECEDING CHARACTERS SUBSECTION MO7A\$-- PO9D-EUX- MO7D-E- MO8EHC-- MO7EK-- MO6F-- MO9HCE-R-M09IHCA-- M08IHT-- M07IL-- M07IR-- M07IS-- M08K-NEP07L-S- M09NIUS-- M07RS-- M07R-B- P08R-EN- M07R-E- M07R-SM07R-T- M09SREP-- P08S-ED- M07S-E- P09S-ING- M07S-IM09S-S0N- P07S-S- M08S-US- M11TNOM-DI- P00 SUCCEEDING CHARACTERS SUBSECTION PO6SH- PO7SON- MO5S- PO6TH- MO5T- PO0 FATHER PRECEDING CHARACTERS SUBSECTION MO6F-- POO SUCCEEDING CHARACTERS SUBSECTION MO9ATHER- MO6OR- MO6UL- POO SUCCEEDING CHARACTERS SUBSECTION MOSLING- POO PRECEDING CHARACTERS SUBSECTION MO9ES-IM- PO0 FRIEND SUCCEEDING CHARACTERS SUBSECTION M05E- M05I- P00 PRECEDING CHARACTERS SUBSECTION MO7HS-- MOSITS-- MIZREVO-FIL- MO7, S--SUCCEEDING CHARACTERS SUBSECTION MOSFILL- POGLE- POGLY- MOSL- POO PRECEDING CHARACTERS SUBSECTION MO9NI-IT- M100D-ONE- MO9RUB-R- POO PRECEDING CHARACTERS SUBSECTION MITALS-EAP- MIZATS-CUND- MITNAHS-AI- MITNUB-OLE- MITNUD-ILL-MICOC-ILL- PIZOEL-AIRE- MIZRUB-ARDT- PO9UA-AM- MIZULP-ORSE-P 0 0



SUCCEEDING CHARACTERS SUBSECTION

MOTAIR- MOGAM- MOTEAD- MOSEART- MOTORN- MOSOUSE- MOTUNIPOO

GUOD

PRECEDING CHARACTERS SUBSECTION

MCS#-ALL- MCSLLIH-- PIONIVIL-- PIOC-NIKS- MOSPAH-- MOSREVE-
MCSRLHT-- MC7SC+- M12YRD-SMAN- POO

SUCCEPTING CHARACTERS SUBSECTION

MOSARZI- MOSBODY- MO6CH- PO6ER- MO5E- M10FELLOW- MOSHART
MC7HEW- MC7HLE- MC7ING- MC7MAN- MO6CL- MOSRICH- MC7SDW
MCSSPEED- MC8WIFE- M10WILLIE- MC7WIN- MOSWCOC- MOSYFAR
POO

GREAT

SUCCEEDING CHARACTERS SUBSECTION
PO6EN- PO6ER- PO7EST- MOSE- Plihearted- MO9HEART- PO0

HAD

PRECEDING CHARACTERS SUBSECTION

MC8#-AD- MC7#-Y- MC9AB-UR- MO9AM-EC- MO9AN-EC- MO7AP-MO7IJ-- MC7K-I- M10PAS-IN- P00
SUCCEEDING CHARACTERS SUBSECTION

MO9ASSAH- PCEDEST- MC5D- MO6EN- MO6ES- M10RAMAUT- MO8RIANPCO

HERE

PRECEDING CHARACTERS SUBSECTION
M12#, \$L-AUX- MOBRI-A- POTAI-- MOTES-- POO
SUCCEEDING CHARACTERS SUBSECTION
MO5D- MOSFORD- MO5N- MO5R- MO6SI- MO6SY- MO6TI- POO

HERSELF

SUCCEEDING CHARACTERS SUBSECTION MOSE- POO

HIMSELF

SUCCEEDING CHARACTERS SUBSECTION MOSE- POO

- IN

PRECEDING CHARACTERS SUBSECTION

MC7A\$-- M09EB-S,- M12MES-DMAD- P11MOCO-\$,- M10MOC-\$,
MC9MOC-- M15TNA-ATICNAL- M10TNA-AZ- M13TNA-UDIST
M13TNA-UTRIT- M13LOE-CCTIA- M10UCE-CX- P00

SUCCEEDING CHARACTERS SUBSECTION

P13ESSENTIAL- M07ESS- M08CDAL- M09CMIAL- P00

ING

PRECEDING CHARACTERS SUBSECTION

MC7A\$-- MICAV-LOR- MIOD-HIES- MOBD-HY- MITEHR-OLDMIOER-ULD- MIOL-ERIE- MOBNEM-I- MI4NESOR-RAVE- MIONU-RATPIOR-HORN- MIISID-ENU- MIVIL-OOD- MOBW-ATE- POO



SUCCEEDING CHARACTERS SUBSECTION MOTALE- MOSLASS- MOTRAD- MOTRAT- POO - CIVI SUCCEEDING CHARACTERS SUBSECTION MO7AS - MO7BY - MO8EQR - MO9EROM - MO71F - MO71S - MO70F -MO70N - MO70R - MO7TU - MORWITH- POO 11 PRECEDING CHARACTERS SUBSECTION MO7,5-- POO SUCCEEDING CHARACTERS SUBSECTION P075,D- P085,LL- P075,S- M065,- P00 SUCCEEDING CHARACTERS SUBSECTION M05E- P00 ITY PRECEDING CHARACTERS SUBSECTION MO60-- MISTNA-PHOID- MOBURE-- MO7, S-- POO JUST SUCCEEDING CHARACTERS SUBSECTION MO8\$ , VE- PO0 KAOM PRECEDING CHARACTERS SUBSECTION M09CUL#-- P00 PRECEDING CHARACTERS SUBSECTION MO7H5-- MO8ITS-- MO9NU-CN- MO7,5-- POO LETTER PRECEDING CHARACTERS SUBSECTION MIODOOLB-- MIOHCS-ER- MOSNIF-- POO SUCCEEDING CHARACTERS SUBSECTION POSED- POSER- MOSE- MOTMAN- POO LIKE SUCCEEDING CHARACTERS SUBSECTION MO6\$,- POO \_ LITTLE PRECEDING CHARACTERS SUBSECTION M10#-BURN- M060-- P00 SUCCEEDING CHARACTERS SUBSECTION MO9BERRY- MO9FIELD- MO9HALES- MO8JOHN- MO8NECK- MO8PAGE-MO7TON- MO8WOOD- MO9WORTH- POO

PRECEDING CHARACTERS SUBSECTION

LORD

M12EHCAB-OM- POO



MENT

PRECEDING CHARACTERS SUBSECTION

MC7H3-- MC8ITS-- MITULE-HAL- MC7, \$-- POOSUCCEEDING CHARACTERS SUBSECTION

MC7ION- POO

MORE

SUCCEEDING CHARACTERS SUBSECTION MOSS, LL- MO65, - POO

MOTHER

PRECEDING CHARACTERS SUBSECTION M11EHC-APY- POO

MUCH

PRECEDING CHARACTERS SUBSECTION
MIOET#-IN- POO
SUCCEEDING CHARACTERS SUBSECTION
MO5A- MO5B- MO5O- POO

MUST

SUCCEEDING CHARACTERS SUBSECTION
MOSA- MOSE- MOSI- MOSY- POO

MYSELF

SUCCEEDING CHARACTERS SUBSECTION MC5E- POO

NAME

PRECEDING CHARACTERS SUBSECTION

MO7#-H- MO7E-L- M11TEIV-SE- M07U-N- P00

SUCCEDING CHARACTERS SUBSECTION

MO7CAN- MOSNT- P00

NESS

PRECEDING CHARACTERS SUBSECTION
MO7Hs-- MO8ITs-- M110N-ENTI- M12U-ENTIAL- M07, 5-- P00

NOT

SUCCEEDING CHARACTERS SUBSECTION MC6s.- POO

OF

PRECEDING CHARACTERS SUBSECTION

MC7A\$-- MIBIR-LAV- MI5DUESP-ATHER- MO9RCIM-- MO9RDYH-M12ROHT-ARE- MC8RP-A- MO8RP-E- F09RP-IT- MO8RP-I- MO8RP-OM08RP-U- MIORTER-L- M08S-AR- M09TCHP-- M12TSIRC-ORM1ChT-OLD- M08h-LL- PO0
SUCCEEDING CHARACTERS SUBSECTION

MOSIELD- MOGOR- POO



DVE

PRECEDING CHARACTERS SUBSECTION MO7#-G- MC7AS-- MO7B-Y- MOBCIP-- MIOCLAB-S- MO9CRAM--M100-CTEC- M070-Y- M120RANREB-- P070-L- M09GIRE--MICCI MA-- MCSHAM-Y- MICHCTUT-- MICHCTUT-- MICHCTUT-- MOSHED-Y-M12HPESREP-- M12HPSEREP-- M10HP-MIC- M08HP-Y- M10HSUHS--MIOH-GGER- MIIIACCAC-- MIBILGITSAC-- MIOIMREH-- MIOIMRIS--MO9INU#-- MIOIPICS-- MO9IREM-- MO9I-SCO- MIOK-FSKY= MC9LABA-- MILLICIPI-- MIBLEAFFAR-- MILLOCH-US- MO9LDIV--MILLOVURP-- PC8L-LY- MO7L-Y- MO9MENA-- MILMMOC-ST-MIIMYS-NKO- PO9M-IAR- PO3M-TI- MIONAK-NS- MIINABIJQ--M13N-CONOMIC- M12N-LASTIC- M09N-LEC- M12N-MOTION-MIBN-MPLOYEE- MOTN-X- MOGC-- MIRRAMAM-CK- MIORECIC--.M11RFHCAM-- M10REV-ZI- M07RK-- F10RNOM-Y- M09ROM-Y-MOSRRE-- MIORTAP-S- MIZRISENIM-- MIORUBIT-- MIZRUELP-CT-M14SREHC#-SUS- MITTNEMAL-- MOSTORP-- MITTTIAT-N- MOSYCLA--MIOYKNIK-- MOSY-ZO- POO SUCCEEDING CHARACTERS SUBSECTION

MOSA- MOSD- MOSE- POTITE- MOSI- POSLESS- POGLI- MOSL-MOGNT- MOSR- POTSES- MOGSE- MOTSIA- MOGSS- POTTHE-POSTIME- MOST- MOGUM- POO

DNG

PRECEDING CHARACTERS SUBSECTION
M11CED-EST- M10CNI-RU- M11CNU-ENI- M13DDAHS-ATE- M07H\$-M08IT\$-- M10M-OUSE- M100M-LOW- M09O-LIT- M07, \$-- P00

Dυ

PRECEDING CHARACTERS SUBSECTION MOTAS-- POO

DUGHT

PRECEDING CHARACTERS SUBSECTION
MO8D#-Y- POO
SUCCEEDING CHARACTERS SUBSECTION
MO6DN- POO

GUUD

PRECEDING CHARACTERS SUBSECTION MO7HS-- MO8IT\$-- MO7,\$-- PO0

TVUG

PRECEDING CHARACTERS SUBSECTION MO7H\$-- MO8IT\$-- MO7;\$-- PO0

DUT

SUCCEEDING CHARACTERS SUBSECTION MO65,- POO

 $\mathsf{O}W$ 

PRECEDING CHARACTERS SUBSECTION

MO7A\$-- M11COL-EED- M12HTRO-IFE- M10LIK-AT- M08N-AYM09N-HAR- M10N-HERE- M09N-ISE- M12RCIM-AVE- P00



SUCCEEDING CHARACTERS SUBSECTION MO70RK- P00

PART

PRECEDING CHARACTERS SUBSECTION

MO9S#-AK- PO7S-A- PO0

SUCCEEDING CHARACTERS SUBSECTION

MOSA- MOSCH- MOSERRE- POSHEID- MOSHE- MOTHIA- MOTODK- POO

PEOPLE

SUCCEEDING CHARACTERS SUBSECTION

P07\$,S- M065,- P00

SAID

PRECEDING CHARACTERS SUBSECTION

M10EVOBA-- P00

SUCCEEDING CHARACTERS SUBSECTION

MOSE- MOSY- POO

SH

PRECEDING CHARACTERS SUBSECTION

PIO#-OUSE- MIIBCC-CRN- MIZHCAD-UND- MIIIHC-OLM- PO8IMA-PC8IME-- PC8IML-- PC8IMC-- PO8IMR-- PIIIM-MASH- PO9IM-NAPICIM-ONG- MO7IM-- MIZIRHC-CLM- MO8I-AM- MIIMAR-ORN-

MO8SAB-- MO9SALG-- MO9SARG-- MIOSA-CLE- MO9SORC-- PO8S-IP-

M12TRAH-DRN- POO

SUCCEEDING CHARACTERS SUBSECTION

MOTART- MOTAWK- MOTEAD- MUSEART- MOTODD-

MOBORSE- MOBOUND- MOBOUSE- POO

SHOULD

SUCCEEDING CHARACTERS SUBSECTION

MO6ER- PO0

SIDN

PRECEDING CHARACTERS SUBSECTION

MO7H\$-- MO8IT\$-- MO7,\$-- POO

SO

SUCCEEDING CHARACTERS SUBSECTION

P07\$, S- M06\$,- P00

SOME

PRECEDING CHARACTERS SUBSECTION

PIODNAH-R- MIOI-TRIC- MIOCMORH-- MIOONAPY-- POSSIL-- MO6S--

SUCCEEDING CHARACTERS SUBSECTION

PO7DAY- MO5D- MO5R- MO7TER- MO7TRY- POO

ST

PRECEDING CHARACTERS SUBSECTION

MC7#-2- MC7#- - PO8AE-H- M11AG-IGHT- M10AM-IDE- M12EDNUB-AG-P13EIRP-HOOD- P09ERC-H- P10E-HOLE- P09E-IME- M12HCIER-AG-M09IDNI-- P10IDNUB-- M09IDNU-- M10IDTUO-- P09ID-IC-



MOBID-I- MOBID-R- MIDID-URB- POPIM-AH- MOBIM-A- MILIM-EACH-MIDIM-ERM- MIDIM-IIL- MIDIM-OOK- PIDIM-RAL- PIIIM-RESS-POPIM-RY- MOBIM-R- MILIMAP-AK- POBOP-H- MIBOTUA-RADE-MOPSARS-- MOPSORC-- POO

SUCCEEDING CHARACTERS SUBSECTION

PO8HEAD- PO9HOUST- PIOHUMOUS- MO5H- MO7IME- MO7IONMO7DWN- PO0

STILL

SUCCEEDING CHARACTERS SUBSECTION P075,S- M06%,- P00

TH

PRECEDING CHARACTERS SUBSECTION

MO8#-\$;- P12AC-ARTIC- M11AC-OUND- M10AHC-AM- M11ADB-DOXM11ADG-ERD- M11AOG-IDE- M11ARTS-AM- P08A-OL- M11ERTS-AMM13FUT-UNTER- M13HGIL-OUSE- M09HGIN-- M10LA-DRN- M11NAL-DRNM10NA-EAP- M12NILF-ARD- M11OH-CUSE- M12ULC-ILDA- M11ODB-EELM11OUF-OLD- M10OP-ERB- M12CP-CLDER- M10OP-OOK- M09OT-AMM1CRAW-OG- M12ROHS-CRN- M12RCPS-AUS- M08 -\$;- M12SEP-OUSEM09S-EAD- P06S-- M11TOG-OLD- M11UN-ATCH- M10UO-ELD- P00
SUCCEEDING CHARACTERS SUBSECTION
M07AND+ M07ART- M07EAD- M08EART- M07ERD- M07ILLP10OLEPIN- M07OLE- M07OOD- P09ORSEN- M08ORSE- M08OUSE- P00

THAT

SUCCEEDING CHARACTERS SUBSECTION
P075;D- P085;L- P075;S- M065;- P00

THE

PRECEDING CHARACTERS SUBSECTION
MO9NA-AP- MO9UP-RB- PO6S-- MO9UD-LD- PO0
SUCCEEDING CHARACTERS SUBSECTION
MO6AD- MO7ART- MO7AST- MO6ES- MO9ILUNG- MO7NCE- MO6NDMO6RD- MO6TI- PO0

THERE

PRECEDING CHARACTERS SUBSECTION
M10AEL-RS- M07AG-+ M09ERB-N- M06E-- M08IC-A- M11IMS-ENSM08RUF-- P00
SUCCEEDING CHARACTERS SUBSECTION
M05D- M06SA- M06SE- M06TT- P00

THESE

SUCCEEDING CHARACTERS SUBSECTION MOSS- MOSUS- POO

THIS

SUCCEEDING CHARACTERS SUBSECTION MO65,- POO

TIME

PRECEDING CHARACTERS SUBSECTION

MOSAL-R- MIOLA-TER- MOSNEC-- MO7PO-- MO9ROM-R- MO7SE-- POO



SUCCEEDING CHARACTERS SUBSECTION MOTHER MOTHER PCC

TION

PRECEDING CHARACTERS SUBSECTION
MOBAHS-- MODAITS-- MOTHS-- MOBITS-- MOT, S-- POO

10 -

SUCLEDING CHARACTERS SUBSECTION

MO7#I - MO8AND - MO8ARE - MO7AS - MO8BUT - MO7BY - MO8FOR - MO9FROM - MO7HE - MO7IF - MO7IN - MO7IS - MO7OF - MO8DNCE-MC7DN - MCJCR - MIOSEEMED- MO8SHE - MO9THEY - MO8TDO - MC7TO - MC9WHEN - MO9WITH - POO

TO aDAY

PRECEDING CHARACTERS SUBSECTION MO92YAD-- POO

UNDER

PRECEDING CHARACTERS SUBSECTION
M06A-- M09k-BAR- M11k-KAPER- P00
SUCCEEDING CHARACTERS SUBSECTION
M06IV- M06DG- P00

UPON

PRECEDING CHARACTERS SUBSECTION
MO7AY-- M10D-CHEL- M07D-T- M07DC-- P00

US

SUCCEEDING CHARACTERS SUBSECTION MO85:LL- POO

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PRECEDING CHARACTERS SUBSECTION
MO7AR-- M11AS-DRSE- M11EN-ATCH- M11EN-AVEN- M11EN-DUSEM12ERB-DUSE- POO
SUCCEEDING CHARACTERS SUBSECTION
MC7ERD- M07IDE- POO

WHERE

SUCCEEDING CHARACTERS SUBSECTION MC7VER- PCC

WHICH

SUCCEEDING CHARACTERS SUBSECTION MO85:LL- PO0

WHO SE

SUCCEEDING CHARACTERS SUBSECTION MC7VER- PCO

WILL

SUCCEEDING CHARACTERS SUBSECTION PC75; S- MC65; PCC

GPCW

PRECEDING CHARACTERS SUBSECTION
P09SSAP-- P10SSORC-- M06S-- P00
SUCCEEDING CHARACTERS SUBSECTION
M06EN- P00

WORK

PRECEDING CHARACTERS SUBSECTION MO9AY-SI- MO7EW-- POO

YHI

PRECEDING CHARACTERS SUBSECTION
MO8, \$0-- POO
SUCCEEDING CHARACTERS SUBSECTION

P07\$,D- P08\$,LL- P08\$,RE- P08\$,VE- M06\$,- P00

AVD -

SUCCEEDING CHARACTERS SUBSECTION
MO6A - MO8FOR - MO7OF - MO8THE - MO9WITH - POO

FOR- -

SUCCEEDING CHARACTERS SUBSECTION

MO6A - MO7OF - MO8THE - HO9WITH - POO

OF -

SUCCEEDING CHARACTERS SUBSECTION MO6A - MO8THE - POO

WITH -

SUCCEEDING CHARACTERS SUBSECTION
MO6A - MO8THE - POO

## TABLE OF EXCEPTION TABLE LOCATIONS

EACH ENTRY IN THE TABLE OF EXCEPTION TABLE LOCATIONS.

CONTAINS A CONTRACTION IDENTIFICATION NUMBER AND AN AREA FOR THO
STORAGE LOCATIONS.

001	ZERO LOCATION	
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	ABOUT
002	ZERO LOCATION	
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	ABOVE
003	ZERO LOCATION	
	ZERO LOCATION	
004	LOCATION OF PRECEDING CHARACTERS SUBSECTION	ACROSS
	ZERO LOCATION	
005	LOCATION OF PRECEDING CHARACTERS SUBSECTION	AFTER
	LUCATION OF SUCCEEDING CHARACTERS SUBSECTION	AFTER
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	ZERO LUCATION	
007	ZERO LUCATION	
	ZERU LUSATION	_



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603	ZERO LOCATION ZERO LOCATION	
0 10	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	ALLY
011	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	ALMOST
012	ZERO LOCATION ZERO LOCATION	
013	ZERO LOCATION ZERO LOCATION	
014	ZERO LOCATION ZERO LOCATION	
015	ZERO LOCATION ZERO LOCATION	
016	ZERO LOCATION ZERO LOCATION	
C17	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	
018	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	DNA
C19	LOCATION OF PRECEDING CHARACTERS SUBSECTION LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	
020	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	AS
021	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	
022	LOCATION OF PRECEDING CHARACTERS SUBSECTION LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	88 88
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026	ZERO LOCATION ZERO LOCATION	
027	ZERO LOCATION ZERO LOCATION	
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029	ZERO LOCATION ZERO LOCATION	
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033	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	BLE
034	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	BLIND
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035	ZERO LOCATION ZERO LOCATION	
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040	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	СН
041	ZERO LOCATION ZERO LOCATION	
042	ZERO LOCATION  LOCATION OF SUCCEEDING CHARACTERS SUBSECTION  ZERO LOCATION	CHILD
043	ZERO ECCATION ZERO LOCATION LOCATION OF PRECEDING CHARACTERS SUBSECTION	COM
045	ZERO LOCATION ZERO LUCATION	0011
046	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	CON
047	ZERO LUCATION ZERO LUCATION	
048	ZERO LUCATION	
049	ZERO LOCATION LOCATION OF PRECEDING CHARACTERS SUBSECTION	DAY
050	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION LOCATION OF PRECEDING CHARACTERS SUBSECTION LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	DAY DD DD
051	ZERO LOCATION ZERO LOCATION	
052	ZERO LOCATION ZERO LUCATION	
053	ZERO LUCATION ZERU LOCATION	
054	ZERO LOCATION ZERO LOCATION	
055	ZERD LUCATION LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	DIS
056	ZERO LOCATION ZERO LOCATION	
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068	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	FF
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071	LUCATION OF SUCCEDING CHARACTERS SUBSECTION ZERO LOCATION	FRIEND
011	ZERO LOCATION	
C72	LOCATION OF PRECEDING CHARACTERS SUBSECTION	,
	FOUNTION OF SUCCEPTIAG CHAPACTERS SHOCKETON	FUL
C73	CHARACTERS SUpported to	FUL
C74	CERO FOCKII (IV)	GG
614	LOCATION OF PRECEDING CHARACTERS SUBSECTION	GH
075	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	GH
	ZERU LOCATION	
076	LOCATION OF PRECEDING CHAPACTERS SUBSCITION	
	COURTION OF SUULEFULNG THARACTEDS SUBSCERTION	G00D
C77	ZENO LUCATIUN	GOOD
078	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	GREAT
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079	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	HAC
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080	LOCATION OF PRECEDING CHARACTERS SUBSECTION	UCDE
C81	LOCATION OF SUCCEBING CHARACTEDS SHOCKET TON	HERE HERE
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082	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LUCATION	HERSELF
	ZERO LOCATION	
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007	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	HIMSELF
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086	LOCATION OF PRECEDING CHAPACTERS SURGESTION	
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880	LUCATION OF SUCCEEDING CHARACTERS SUBSECTION	ING
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096	LOCATION OF PRECEDING CHARACTERS SUBSECTION	LESS
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097	LOCATION OF PRECEDING CHARACTERS SUBSECTION	LETTER
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	LETTER
098	ZERO LOCATION	
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099	LOCATION OF PRECEDING CHARACTERS SUBSECTION	FILLE
100	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION LOCATION OF PRECEDING CHARACTERS SUBSECTION	LITTLE
100	ZERO LOCATION -	LUKU
101	ZERD LOCATION	
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103	ZERO LOCATION	
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104	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	MOTHER
105	LOCATION OF PRECEDING CHARACTERS SUBSECTION	MUCH
100	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	MUCH
106	ZERO LUCATION	113 311
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	MUST
107	ZERO LOCATION	
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108	LOCATION OF PRECEDING CHARACTERS SUBSECTION	NAME
100	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	NAME
109	ZERO LUCATION Zero location	
110	ZERO LOCATION	
210	ZERO LOCATION	
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112	ZERO LOCATION	
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124	LOCATION OF PRECEDING CHARACTERS SUBSECTION	OUT OW
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125	ZERU LUCATION	0.11
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126	LOCATION OF PRECEDING CHARACTERS SUBSECTION	PART
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127	ZERO LOCATION	
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128	ZERO LOCATION	
120	ZERO LOCATION	
129	ZERO LOCATION ZERO LOCATION	
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146	LOCATION OF PRECEDING CHARACTERS SUBSECTION	SOME
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147	ZERO LOCATION	
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148	LOCATION OF PRECEDING CHARACTERS SUBSECTION	ST
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156	LOCATION OF PRECEDING CHARACTERS SUBSECTION	
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157	ZERO LOCATION	
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160	ZERO LOCATION	
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161	ZERO LOCATION	
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162	LOCATION OF PRECEDING CHARACTERS SUBSECTION	TIME
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171	ZERO LOCATION ZERO LOCATION	
172	ZERO LOCATION  LOCATION OF PRECEDING CHARACTERS SUBSECTION	UNDER
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174	ZERO LOCATION	uc
175	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	05
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176	ZERO LOCATION	
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179	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION *	WH
117	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	WHERE
180	ZERO LOCATION	
181	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION ZERO LOCATION	WHICH
101	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	WHOSE
182	ZERO LOCATION	
102	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	WILL
183	ZERO LOCATION ZERO LOCATION	
184	LOCATION OF PRECEDING CHARACTERS SUBSECTION	
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	
185	LOCATION OF PRECEDING CHARACTERS SUBSECTION ZERO LOCATION	WORK
186	ZERO LOCATION	
	ZERO LOCATION .	
187	ZERO LOCATION ZERO LOCATION	
188	LOCATION OF PRECEDING CHARACTERS SUBSECTION	YOU
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	YOU
189	ZERO LOCATION ZERO LOCATION	
190	ZERO LOCATION	
	ZERO LOCATION	
191	ZERO LOCATION ZERO LOCATION	
192	ZERO LOCATION	
	ZERO LOCATION	
193	ZERO LOCATION  LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	AND -
194	ZERO LOCATION	ANU -
	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	FOR -
195	ZERO LOCATION  LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	OF -
196	ZERO LOCATION	UP =
_	LOCATION OF SUCCEEDING CHARACTERS SUBSECTION	HIIH -



#### TABLE OF BRAILLE NUMBERS

0	04132
1	04101
2	04003
3	04011
4	04131
5	04021
6	04113
7	04033
8	04123
9	04012

## TABLE OF BRAILLE LETTERS

02101
05101
02003
02011
02131
02021
02113
02033
02123
02012

# TABLE OF COLUMN WIDTHS

· 中国人名英马登里人名英多斯特里西班牙克斯特里亚克里克斯特人名英克斯特里克 人名英格兰人

0	0.0
1	00
5	0.0
3	00
4	0.0
5	0.0
6	0.0
7	0.0
8	00
9	0.0
10	00
11	00
12	00
13	0.0
14	00
15	0.0

# TABLE OF 6-BIT EQUIVALENTS

0	010	000
ĭ		
1	001	000
2	000	100
3	000	010
4	000	001



5	100	000
6	101	000
7	100	100
8	100	010
9	100	001

## TABLE OF 8-BIT EQUIVALENTS

0	0000	0000
1	0000	1000
2	0000	0100
3	0000	0010
4	0000	0001
5	1000	0000
6	1000	1000
7	1000	0100
8	1000	0010
9	1000	0001



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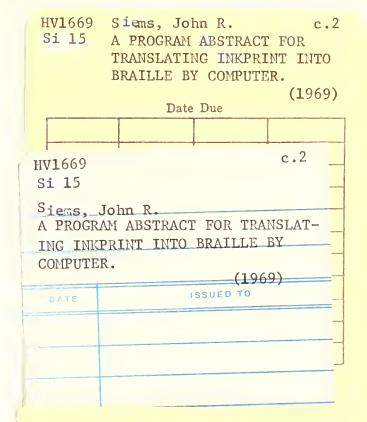


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